

| | Autumn Term | | | |
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| SUBJECT: Science | Topic: Animals Including Humans | Year: 1 | TERM: This is a 14 week unit (12 lessons including 2 assessment opportunities) | |
| | NC Objectives: Pupils should be taught to: I can identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals I can identify and name a variety of common animals that are carnivores, herbivores and omnivores. I can describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets) I can identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. | | | |
| STRAND: Biology | WS Objectives: ND: Pupils should be taught to: Asking simple questions and recognicing that they can be answered in different ways | | | |
| | Key Indicators: Can name a range of animals which includes animals from each of the vertebrate groups. Can describe the key features of named animals. Can label key features on a picture/diagram. Can write descriptively about an animal. Can write a 'What am I? riddle about an animal. Can describe what a range of animals eat. Can compare and classify animals. | Head, body, eyes, tail, wing, claw, fin beak, paws, hoove | Vocabulary ears, mouth, teeth, leg, , scales, feathers, fur, es, reptile, amphibian, e, carnivore, herbivore, | |



| Learning Objectives | Whole Class Teaching including key questions | Recording of outcomes (Differentiated where | Assessment Opportunities | Resources | | |
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| | | appropriate) | Opportunities | | | |
| Pre-assessment opportunity (| PP Slide 2) | | | | | |
| Choose the pre assessment that suits your class e.g. Concept cartoon (provided) Plickers Assessment (online quiz) Mind mapping, KWL chart, Knowledge | | | | | | |
| - | nat suits your class e.g. Concept cartoon (provided) Plickers Assessment matching activity, modelling activity. This should not be a whole lesson | | | - | | |
| recommendation is using the | | i and should take no longer | | 11 | | |
| recommendation is using the | concept map on next side. | | | | | |
| Week/Lesson 1 | Slide 3- Share the Learning Objective (LO), Working Scientifically | | | PowerPoint | | |
| | (WS) and Scientific Enquiry (SE) for the unit. | | | PSTT | | |
| LO: I can identify, name, | Introduce children to the symbols. Use the large symbols from the | | | symbols. | | |
| draw and label basic parts | PSTT Website to display in the classroom. | | | | | |
| of the human body and say | | | | | | |
| which part of the body is | Slide 4- Share Lesson objectives, WS and SE for the lesson. For | | | | | |
| associated with each | further subject knowledge you can follow the module on Reach Out | | | | | |
| sense. | CPD. (Link on slide) | | | | | |
| | | | Challenge any | Post it notes | | |
| WS: I can observe features | Slide 5- Children to add questions on post it notes. Display | Teacher to question | misconceptio | | | |
| of the human body. | throughout the topic and put on 'what we know' section once | children and give | ns. | | | |
| | answered. This can be put in floor books. | children some prompts | | | | |
| | Links to science capital with adding in scientists and jobs. | as to what they might like to find out. | If working in a | | | |
| | Slide 6- Concept Map. Provide children with their own copy (or | like to find out. | If working in a | Concept map- | | |
| | group copy if preferred) Children to add any notes and stick in books | | group, note down | resources. | | |
| | after unit title. | Listen to children and | children's | | | |
| | Children share some of their ideas and add to the floor book. | tell them to write down | ideas and | | | |
| | Provide labels for SEN children to add to the parts they know or | things they can see or | level of | | | |
| SE- I can identify different | language they have heard of. | what link. | knowledge of | | | |
| parts of the human body | | | the topic. | | | |
| | Slide 7- Our body. In small groups, children to draw around one | | | | | |
| | person in their group on large paper. Children try and label their | | | Large | | |
| | drawing with the following: head, ears, neck, eyes, mouth, arms, | | | paper/pens. | | |
| | elbow, hands, feet, fingers, chest, stomach/tummy, knees, legs, | | | | | |



| | toes. These labels can be provided so they can stick on if they have trouble copying from the board or TA scribe. Place a completed version on the board and play Simon Says to ensure all children repeat the parts of the body. Slide 8- Play parts of the body from bbc.co.uk. (Link on the slide). https://www.bbc.co.uk/bitesize/topics/z9yycdm/articles/zqhbr82 Slide 9- Children to go back to their outline to see if they need to change or amend. (Take photos- AfL) Click on the picture to share. Assessment point- picture in the floor book- teacher/TA to make notes of any child who does not know all of the parts of the body. Challenge- provide children with a challenge envelope with the labels; shin, ankle, knee cap, thigh, waist, spine, shoulder, eye lid and nostril. Can children add these additional labels? Slide 10- Let's apply our learning- Play Simon Says where children have to point to different parts of the body. Teacher/TA to look for any children who are hesitating. Finally, can the children as a class add labels to the diagram to complete the labelling activity? Use a child to stick post it notes to-adds to the fun! (Depending on your class, you could provide some labels in small groups/pairs and they could add labels to one person in the group/pair) Take pics for floor books. Take a picture of children's model and use the LO and WS assessment with picture in children's books. Slide 11- Children self-reflect on the LO using the unit title page, colour face and tick the WS and SE covered. | Small groups. | Note children who are struggling to participate and make a targeted group with adult support. Assessment- Can children use their observation skills to identify parts of the body? Highlight the appropriate box. Children's self evaluation. | Body outline sheet in resources (optional) |
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| Week/Lesson 2 LO: I can identify, name, draw and label the basic | Slide 12- Lesson 2 let's recap previous learning. Provide children with a copy of this labelling diagram. Can they label the body? | | | Body outline |



| and say which part of the body is associated with each sense.thoughout the topic and put on 'what we know' section once answered. (Add any post it notes to the page in the floor book) Links to science capital with adding in scientists and jobs.or teacher/TA can scribe ideas.notes.WS: I can carry out simple tests to compare and classify.Slide 14- Share LO, WS and SE for the session. Slide 15- Big Question- Are all our features the same? Children to to look at their partner and discuss what they have the same and what is different. Start with head, then compare arm length, then hands, height, legs, size of feet.Children to work in partners.Listen to children's responses and challenge misconceptio n.s.Side 16- Ask children- what do we mean by the word senses? Reveal each picture and see if children can relate each picture with the sense.Side 16- Ask children- what do we mean by the word senses? Reveal each picture and see if children can relate each picture with the sense.Mixed ability groups.Encourage scientific vocabularyRecording table.Slide 16- Ask children what do ta taste.Slide 17- taste- Explain to children tary out the test and classify the foods correctly. Stick the table in children's science books. Children can write the name of the food or draw into table. The assessment is on the carrying out the test not on recording in the table.Mixed ability groups.WS and LO criteria can be found in resources.WS and LO statementsSilde 19- Did you know Pair children up. Tell one child to close their eyes and hold their nose. Give child 2 a food (either a picce if apple or potato), ask child 1 to eat it with their nose held. Can they guess the food? Swap over. How did it fe | parts of the human body | Slide 13- Children to add questions on post it notes. Display | Can be done individually | | Post it |
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| smell? | | | | | |
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| Slide 20- Sight. Tell children we will finish off the lesson by thinking | | | | | |
| | | Slide 20- Sight. Tell children we will finish off the lesson by thinking | | | |
| about another sense: sight. | | | | | |



| | Slide 21- Tell children that this is not to scale but can have some fun with it. Ask children to stand at the other side of the room and cover over 1 eye. Can they read any letters? Now move one step closer etc etc. Now repeat with the other eye. Explain that sometimes we have a more reliable eye but you don't notice as you use both eyes usually. If someone was stood fairly close to the letters and still could not read them- what might this suggest? How might you adapt this test for young children? Use big and small pictures. Slide 22- Lets reflect- Plenary- Point to different parts of the body, can children recall? Children to recall the 5 senses before they fly in. If children are unsure point to each picture and ask children to repeat. | | Children's self- | |
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| | Share the new taste vocabulary- what did it feel like when we tasted each thing? How can we describe the words? Sing a body song e.g., head, shoulders, knees and toes or Simon says or Okey Cokey. Slide 23- Children to reflect on the LO, Ws and SE using the unit | | reflection. | |
| Week/Lesson 3 LO: I can identify, name, draw and label the basic parts of the human body and say which part of the body is associated with | page. Slide 24- Let's recap lesson Give all children a bingo board and counters, teacher calls the body parts and children cover them up if they have them. Slide 25- Share LO, WS and SE with the children. Slide 26/27- Smell- read information on the slide to the children to put this into context. | Teacher/ TA is the caller and the children can work individually or in pairs. | Note children who are struggling to identify basic parts. Ta to write names. | Bingo cards and boards in resources. |
| each sense. WS: I can make predictions when using my senses. | Slide 28- What's that smell? Smell each jar, can you work out what it is? These two activities work best when children are split into 2 groups and swap over. | Two large groups. Use the STEM sentences on the board to model talk. | | Range of smell jars. |



| SE: I can carry out a comparative test to test whether our sense of smell | Present children with smell jars, can they guess what is in there? If not show the next slide to see if they can distinguish the smell. (adapt if you have different smells) | | | Worksheet |
|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| is better when we can't see. | Slide 29- You can change this depending on what smells you have collected. This may aid as prompts for children to choose from if they are stuck. You will need to prepare the pictures which correspond to the scents you have collected. (Worksheet provided in resources). Slide 30- rank from strongest smell to the weakest smell. Children to complete this activity, either using pictures provided or simply by writing the foods on the line. Extend children to write a sentence to justify e.g. I thought the strongest smell was the as I could smell it before I put my nose to it. This can be stuck in science books. Slide 31- We will now explore the sense of touch. Provide children with feely bags/boxes, children feel inside and try to guess the | Model ranking Explore language related to textures of objects. | Assess children's ability to rank the smells and use scientific vocab to describe. WS criteria provided on the sheet. | with WS and LO. Feely bag with materials. |
| | object e,g teddy (soft), toy car (metal) cup (plastic), slime/playdough (gooey).Pine cones etc (Teacher demo-sharp) Slide 32- Extension activity if time. This could be your working wall/curiosity table which is ongoing with a range of words on. Slide 33- Plenary- sense of hearing. Can children guess each sound? You could extend this unit by going on a listening walk around the school- this resource is also included in the lesson pack. Slide 34- Children to self-reflect on the LO, WS and SE using the unit | | Children self- reflect. | |
| Week/Lesson 4 | title page. Slide 35- What did we learn last lesson? | ТТҮР | Listen to | Sound |
| LO: I can identify and name a variety of common | | | children's reasoning and | cards in resources. |



| animals including fish, | Slide 36- Children to order the sound cards from the loudest to the | | ask them to | |
|------------------------------|----------------------------------------------------------------------------|-------------------------|----------------|------------|
| amphibians, reptiles, birds | quietest. | | explain their | |
| and mammals | | | thoughts. | |
| | Slide 37- Share LO, WS and SE with children. | | Ũ | Cards with |
| | | | | animal |
| | Slide 38- Give children an animal- children ask questions to ascertain | | Challenge | names on. |
| WS: I can ask questions to | who the animal is. What makes a good question? Some example | | children to | |
| identify, sort and classify. | questions on the slides. Allow a few children to have a go. | | pose | |
| | | Teacher/TA to | questions. | |
| \frown | Slide 39- Let's classify your soft toy. Children to bring in | encourage questions | - | |
| (222) | teddies/plastic animals from home. Sit children in a large circle or 2 | and reasons for their | | |
| | smaller if you have a TA. Place down 2 hoops and ask children- how | groupings. | | Soft toys |
| | can we sort out teddies based on their characteristics? Children may | | | from |
| | say- has legs/no legs. How many legs (add more hoops if needed) | | | classroom/ |
| SE: I can classify animals | Does the animal have a beak? tail? wings? mane? | | Ask children's | home. |
| based on their | Slide 40- Awesome animal's clip. You may only want to play parts of | | questions | |
| characteristics. | the clip as it is 13 minutes long. There are discussion points through | | based on | |
| | the video. | | what they | |
| | | Teach may have to | have seen. | Sorting |
| | Slide 41- Place the sorting hoops on the tables with a selection of | intervene and model a | | hoops. |
| | animals. Children to sort the animals into the groups on the table. | couple of groups first. | | |
| | Take a picture for floor books. | | Use WS | |
| | Children can then come up with their own sorting diagram (this can | | criteria to | |
| | be one they have already done to sort a selection of animals into) | | assess. | LO and WS |
| | Assessment opportunity- Can children come up with suitable | | | objectives |
| | questions to sort? | | | in |
| | | | | resources. |
| | Slide 42- Take pictures of children's groupings. LO and WS | | Children's | |
| | statements in resources. | | self- | |
| | Clide 42 Decement O. WC and SE. Children ten solf reflect on writ | | reflection. | |
| | Slide 43- Recap on LO, WS and SE. Children top self-reflect on unit title. | | | |
| | | | | |
| | | | | |
| | | | | |



| Week/Lesson 5 | Slide 44- Let's recap. Point to each body part, can children name them. | Point, say and ask children to repeat so | Ask children to repeat | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------|----------------------------|
| LO: I can describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets) | Slide 45- Animal groups. Ask children what animal groups can they remember? Children may have picked up on vertebrates too which they could use as a category or this could be used as a challenge. Children TTYP and feedback. | less able learners can understand the language related to different body parts. | body names. | |
| WS: I can make | Slide 46- Share LO, WS and SE for the lesson. | | | |
| comparisons between animals and give my reasons. | Slide 47- Read the book Creaturepedia or an equivalent animal book with facts. Ask which animal is your favourite? What makes your favourite animal so amazing? | Encourage children discussing animal features. | | Animal book. |
| | Slide 48-Sort animals according to structure Look at vertebrate/invertebrate- this will be reinforced with animal xrays (role play area VETS) | | | Animal xrays |
| SE: I can spot patterns between different groups of animals. | Take picture for floor books. Slide 49- Pass around a selection of animal xrays. Ask children what they can see. This can be done on the carpet or in small groups. Can | Tell children to look at | Question children regarding | Compariso |
| | they spot similarities/differences between the animals. Can they match the xray with the animal picture? Can they spot vertebrates and invertebrates? | the animals carefully. Encourage similarities and differences. | features of the animals. | n sheet Animal pics. |
| | Slide 50- Comparison activity This could be done in groups and TA/teacher scribe. Children could be given labels/pictures if they are not able to write or read. | | Use WS criteria to assess. | |
| | Slide 51-EXT How big, how small. Attach a measuring stick to the wall and place picture of the animals beside depending on its height. | You will need to look up the heights with the | | |



| | Add pictures or labels of each child to the chart so they can see which animals they are as big as. Slide 52- Recap on Lo using the LO, WS and SE on the unit title page. | children and attach animals they suggest to the height measurer e.g name some massive animals. Then teacher to research height. | Children self- assess. | Compariso n sheet. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------|
| Week/Lesson 6LO: I can identify and name a variety of common animals that are carnivores, herbivores and omnivores.WS: I can use sorting rings and Venn diagrams to record my findings.SE: I can identify and sort animals according to what they eat.Image: Second seco | Slide 53- Share LO, WS and SE with the children. Slide 54- Children to guess what this zoomed in image is- ask them to look carefully at the features. All images from Explorify - best to use from their site as easier to zoom out. Ask children what they think it may be each time. Slide 55- Read the Tiger who came to tea. Ask, is this book accurate? How would we find out what tigers eat? (Click on book for youtube link for read along) Slide 56- Sort teddies into categories of what they might eat. (Pre assessment point) Take picture for floor books. Slide 57- Watch this BBC Clip. What types of food do animals eat? - KS1 Science - BBC Bitesize Slide 58- 3 paper plates - children to sort animals into categories of what they eat- Introduce vocabulary Herbivore, omnivore and carnivore. Children to do this on their table groups. Children to record their findings on a Venn diagram- model this. (Next Slide) OR you could take photos for books as this is an assessment point for recording. Venn diagram- introduce overlap for Omnivore. | Encourage children to refine their guess based on what they can see. Do children have any questions about what they have just seen? Teacher model on the carpet. Question what their teeth may be like. | Do they have any sci language for food groups? | Animal teddies. Venn diagram sheet. |
| | Slide 59- Model how to complete the Venn diagram. | Teacher model | Use WS assessment. | |



| | Children to use the Venn diagram sheet to sort the animals. | | | |
|-----------------------------|------------------------------------------------------------------------|-------------------------|----------------|------------|
| | | | | |
| | Slide 60- Animal teeth. EXT activity | | | |
| | Make model masks for display- open wide. | | | |
| | Children choose a mouth template and decide which teeth to add eg | | | Masks/ |
| | pointed teeth for lion (Carnivore), square teeth for goat (herbivore) | | | plates and |
| | and a mix for a bear who eats both. (Omnivore) | | Children self- | art |
| | | | reflect. | materials. |
| | Slide 61- Children self-reflect on LO, WS and SE. | | Teneet. | materials. |
| | Slides 62/63 knowledge quiz. You may wish to use the Plymouth | | | |
| | Science tests instead, downloadable from the resource area on the | | | |
| | website. Plymouthsciencecic.co.uk for FREE. | | | |
| | This unit has a further 6 lessons extension with resources if you wish | | | |
| | to extend the learning further or even substitute some of the earlier | | | |
| | lessons with. | | | |
| Week/Lesson 7 | Slide 64- title page for the extension unit. | | | PP |
| | Slide 65- share LO, WS and SE for the extension unit | | | |
| LO: I can identify, name, | | | Note any | |
| draw and label basic parts | Slide 66- Shout out part of the body, children touch it on their | Whole class | children who | |
| of the human body and say | bodies. | participation. | do not know | |
| which part of the body is | Click on the link What are the parts of the human body? - BBC | | the basic | |
| associated with each sense. | Bitesize | | body parts- | |
| | Share with children a short clip about how lots of our bodies are the | | Target group | |
| WS: I can complete a simple | same but we can use them in different ways. | | with flash | |
| table. | | Model completing the | cards. | |
| | Slide 67- Children to add to their concept map any new learning. | recording table with | | |
| | | children (in resources) | | |
| | Slide 68- Share LO, WS and SE for the lesson | LA children may need | | |
| | | support with this. | Do children | |
| | Slide 69- Explain to children that we will be exploring some of the | | know how to | |
| | things that our bodies can do. Not everyone will be able to do all of | | complete a | |
| | them. After each action, children need to mark in the box if they | | table using | |



| SE- I can identify how my | could do it or not. Ask children what would be an appropriate mark | Guide children in | marks to | Flash cards |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|--------------------|
| body moves. | to make e.g. tick, smiley face, stars. Model how to do this then start | completing the table | represent | printed |
| | the activity. This is a WS assessment piece. | accurately. Model | data? | from |
| | | further if needed. TA | | resources |
| | Slide 70-74 | may be able to take a | | or slides. |
| | Ask children to find a space in the classroom OR you could print the cards in resources and hold up in the hall or playground. Children try and perform the moves. | guided focused group. | | |
| | After each move, children mark on their table whether they could do | | Mark children | |
| | it or not. (They could tick, smiley face, star- however they would like | | work using | |
| | to complete their table. (In resources) | | WS criteria | |
| | | | (resources) | |
| | Ask children to count how many from their table (Assessment focus). Now hold up the cards or show each move again. Ask children to | | | |
| | raise their hand if they could do it. Children to notice that they are | | | |
| | all different and could do different things. Ask children to think of | Children to self-reflect | | Unit title |
| | something they do out of school, how many other children do that | in books. | Self-reflection | pages at |
| | e.g. horse-riding, swimming, karate. | | | front of books. |
| | Slide 76- Share this video with children to show that it is perfectly | | | 00003. |
| | normal to be able to do some things and not others. | | | |
| | Slide 77- Recap on LOs. Children to reflect on unit title pages and | | | |
| | tick WS and SE covered. | | | |
| Week/Lesson 8 | TAPS Assessment op | portunity | | I |
| Week/Lesson 9 | Slide 78- Share LOs for the session. | Whole class | Note any | Рр |
| WEEN/LESSUILS | | participation | children who | L L L |
| L.O- I can identify, name, | Slide 70. Explain that in this losson we will be exploring concess | participation | | |
| draw and label the basic | Slide 79- Explain that in this lesson we will be exploring senses | | cannot | |
| | further. Point to each picture, can children explain the sense and | | remember | |
| parts of the human body | why we need it? | Small group work | the senses or | |
| and say which part of the | | Small group work | what we need | |
| body is associated with | Slide 80- Senses walk | | these senses | Clip boards |
| each sense. | | | for. | |



| | Give children clip boards with their senses sheet. Take them to | | | Recording |
|------------------------------|-------------------------------------------------------------------------|---------------------------|---------------|-------------|
| WS: I can record my | different parts of the outdoor grounds, this can include local park, | | | sheets |
| findings using drawings, | nature track, playground, field etc. Ask children to look around what | | | (resources) |
| writing or symbols. | can they see? Sit children down in each area, what can the hear? | | | · , |
| | What can you touch which has different textures e.g. Holly leaves, | | | |
| | silky flower petals, rough tree bark etc. Ask children is there | You could pair children | Listen to | |
| (\mathbb{N}) | anything that you could taste? E.g. black berries, nettles for nettle | up if there are children | children's | |
| | tea. You could pick some for the children if you complete a risk | who struggle writing. | responses and | |
| | assessment. Ask children what they can smell. Children to jot down | | prompt and | |
| SE: I can identify my 5 | their ideas on their sheet. | | probe with | |
| senses when exploring the | You could pair children up if there are children who struggle writing. | Teacher modelling | additional | |
| outdoor environment. | | before activity starts, | questions. | |
| - | Slide 81- Demonstrate to children how to complete their recording | state expectations. | • | |
| | table. They could draw or write their findings in each box. | | | |
| | LA children could be supported by TA to scribe or take pictures to | | | |
| | stick on their sheet and add to floor book. | | | |
| | | | | |
| | Slide 82- What did you find out? Go through each sense- ask children | Children self-reflect | Self- | |
| | what they found. Focus on vocabulary development e.g you felt a | | reflection. | |
| | holly leaf, what did it feel like? | | | |
| | | | | |
| | Slide 83- Recap on LOs and children self-reflect. | | | |
| Week/Lesson 10 | Slide 84- share LO with children. | | | PP |
| | | | | |
| L.O- I can identify and name | Slide 85- ask children- what is the zoomed in image? Invite children's | Question chn ask what | | |
| a variety of common | suggestions. Click on the image to go to the Explorify activity. | could it not be questions | | |
| animals such as minibeasts | Ask children if they have revisited their ideas based on them looking | too. | | |
| | closely- ask children what they can see in the picture and what could | | | |
| WS: I can observe closely | it be? | | | |
| the structure of different | | | | |
| minibeasts. | Slide 86- Explain to children that they will be using microscopes, easi | Teacher to demonstrate | | Petri |
| | scopes or magnifying glasses to observe mini beasts closely. | how to zoom in and out | Question | dishes, bug |
| | | on microscopes. | children | collecting |
| | | Children to go out | about what | equipment |



| SE: I can identify different mini beasts based on observations. | Take the class on a mini beast hunt and collect some minibeasts to put in a petri dish or larger dish to observe under microscopes. Demonstrate how to zoom in and zoom out. Slide 87- Demonstrate how to use pooters and collecting jars to capture minibeasts safely. Give children 20 mins to find some minibeasts. Remind children of the rules. Share mini beats hunt rules with children and how they need to be respectful of living things and the habitats. Slide 88- Demonstrate how to zoom in and zoom out. Children to observe their mini beasts under the microscopes and with their partner/group chose one to draw in detail- keep looking at the minibeast to draw each part carefully. (Observing is a WS focus) Look at children's drawing and observe how children are using the observation equipment to make your judgement. LO and WS statements are in resources. Slide 89- Mini beast gallery Ask children to place their drawings on the table. Play some soothing music and ask children to walk about and look at each other's drawings. Then return minibeasts to natural habitats. Clean microscopes. Slide 90- children reflect on LOs of the lesson. | looking for mini beasts in small groups. Question children's drawings and ensure they are looking closely and not rushing. Children to state which ones they like and why. Children self-reflect using title pages. | they can see and not what they think they can see. Can children use equipment safely? Use WS statements to assess. | Microscop es, easi scopes, magnifying glasses, microscop es. |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Week/Lesson 11 L.O- I can identify and name a variety of common animals such as birds WS: I can closely observe bird characteristics. | Slide 91- Let's recap our learning- what did you notice when observing through a microscope that you never noticed before? Children to discuss, they may talk about tiny hairs on legs, certain patterns. Slide 92- Share LOS with children. | Teach children the importance of looking closely. | | РР |



| SE: I can research facts about different birds. | Slide 93- Bird watching- click on the Clip to watch UK Birds. British Birds STEM Slide 94- Explain to children that they will be bird watching in this lesson and identifying birds using an id guide. Birds A- Z Bird Guides - The RSPB- click on this link and allow children to listen to some of the audio files (we will be using our sense of hearing and sight for bird watching) Birds A- Z Bird Guides - The RSPB Slide 95- Bird Identifier British Garden Birds and Many More - The RSPB Children can use this link to find the birds they found or the ID cards. If you do not have many bird around the school, you could cut up and laminate the cards and place them around the school grounds, once found, children then use their id card to identify which one they have found. | Children to work in small groups. | Question children by questioning the birds they find- how do you know it is that bird? | Bird ID (Resources) Binoculars. |
|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Week/Lesson 12 | Slide 96- Children to draw into books. LO and WS assessment can be found in resources. Children to think about the critique from last lesson and you are looking for improvements. These pictures will make great displays. Slide 97- Bird Gallery Walk around the room to soothing music, children to look at each other's work. Children can also take with them the ID kit to see how close the bird looks to the original- can they identify the bird. Children return to their seats and write the name of the bird on the sheet. Slide 98- children to reflect on LO using the unit page. | Children can work independently on this. Ensure children are looking closely, children think about proportions and size, colour and specific features. Self-reflection. | Assess using Ws assessment. Self-reflection | |
| Week/Lesson 12 L.O- I can identify and name a variety of common | Slide 99- What do we know about birds? Children to tell their partner what they learnt last lesson. Focus on the features of birds and how they can tell which bird is which. Reveal some bird facts to share. | | | |



| animals including fish, | | | | |
|--------------------------------|---------------------------------------------------------------------------|---------------------------|--------------|-------------|
| amphibians, reptiles, birds | Slide 100- Share Los for the lesson. | | | |
| and mammals. | | | | |
| | Slide 101- What am I? Stick an animal card on the back of each child, | Can children using their | | Animal |
| WS: I can interpret my | the children move around the room when they meet another child, | observation skills to | | cards |
| results and make simple | they ask them questions about the animal on their back to help | describe? | | (resources) |
| conclusions. | them guess e.g. does it live on land? | | | |
| | When they have guessed the animal, they go back to the teacher to | | | |
| | swap their animal card. | | | |
| | Slide 102- Why do animals camouflage? Children discuss question | | | |
| | and then click on the link to watch a clip about camouflage. | Do children have any | Note any | |
| | Camouflaged animals in the jungle - KS1 Science - BBC Bitesize | questions about animals | misconceptio | |
| SE: I can look for patterns in | | and camouflage? | ns. | |
| my data. | Slide 103- Camouflage investigation. | | | |
| | Scatter long and short pieces of coloured wool onto a stretch of | | | |
| | grass (you will need 50 pieces). These represent insects | Children to collect | | |
| | Children are the birds; their job is to go and find some insects to eat. | individually or in pairs. | What are | Coloured |
| | Give children 15 seconds to pick up as many as they can. If they have | | children | string of |
| | not found many send them back for another 15 seconds. | | noticing? | different |
| | | | | lengths. |
| | Slide 104- What did we find? Children to come to the front with their | | | |
| | cubes and stack the colours. | | | |
| | This gives a visual representation of their results. You could stick to a | Class demonstration | | Cubes |
| | board and put axis and title. Ask children questions about the | | | |
| | results. Which colour did we find most of? (Contrasting colours) | | | |
| | why? What did we find least of? Why? You could see the green wool | | | |
| | when you looked closely but when limited with time this was tricky. | | | |
| | Slide 105- Interpret our results. | | | |
| | Children can write or you could film children's explanations of the | | | |
| | results. | Target group if needed | Use WS | |
| | Recording sheet in resources if needed or use STEM sentences on | but children should be | Assessment | Recording |
| | screen. | able to do this | when | sheet if |
| | | independently. | marking. | needed. |
| | | | | |



| | Slide 106- Reflect on LOs for the lesson. | Recording sheet to support LA if needed | Self-reflection |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Week/Lesson 13 L.O- I can apply my learning about animals including humans. | Slide 107- Assessment. You can use assessment tests on plymouthsciencecic.co.uk Or ask children to draw a poster of everything they know about animals including humans from this unit. It may be worth revisiting the mind map and children could add their learning to this in a different colour. Slide 108- Concept map Children to add any notes and stick in books after unit title. Children share some of their ideas and add to the floor book. Provide labels for SEN children to add to the parts they know or language they have heard of. | Children to complete concept maps individually but can talk about their learning in small groups. | Assess children's knowledge. Mark tests to see how much they have retained. |
| Week/Lesson 14 | TAPS Assessment Op | portunity | 1 |

| | Spring Term | | | | |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------|--|--|
| SUBJECT: Science | Topic: Materials | Year: 1 | TERM: This is a 12 week topic including assessment opportunities. | | |
| | Pupils should be taught to: I can distinguish between an object and the material from which it is made. I can identify and name a variety of everyday materials including wood, plastic, glass, metal, water and rock. I can describe the simple properties of a variety of everyday materials. I can compare and group together a variety of everyday materials on the basis of their simple properties. | | | | |



| STRAND: | Pupils sh | ould be taught to: | | | |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|-------------------------|
| Physics | • A | sking simple questions and recognising that they can be answered | d in different ways | | |
| | • C | bserving closely, using simple equipment | | | |
| | • P | erforming simple tests | | | |
| | • Ic | lentifying and classifying | | | |
| | • U | sing their observations and ideas to suggest answers to questions | 5 | | |
| | • G | athering and recording data to help in answering questions. | | | |
| | Key Ind | licators: | Key V | ocabulary | |
| | Can label a picture/diagram of an object made from different materials. Object, material, wood, plastic, glass, metal, water, | | | | |
| | Can describe the properties of materials. rock, brick, paper, fabric, elastic, foil, card/cardboa | | | | |
| | Can sort | an sort materials using their properties. Can test evidence to answer a rubber, wool, clay, hard, soft, stretchy, stiff, bendy, | | | |
| | question. floppy, waterproof, absorbent, breaks/t | | | | |
| | | | smooth, shiny, dull, see th | rougn, not see th | irougn. |
| Learning Objec | tives | Whole Class Teaching including key guestions | Recording of outcomes | Assessment | Resources |
| 5 0 | | | (Differentiated where | Opportunities | |
| | | | appropriate) | | |
| Pre-assessment | opportunity | (PP Slide 1) | | | |
| retrieval quiz, so | orting activity | hat suits your class e.g. Concept cartoon (provided) Plickers Assessmen , matching activity, modelling activity. This should not be a whole lesso concept map on next slide. | | - | - |
| Week/Lesson 1 | | Slide 3- Do children know what these materials are? Can they label | This can be done in | Note any | Floor book |
| | | them? Can they add some uses of them? | small groups or | children with | (optional). |
| LO: I can disting | | Pre assessment opportunity. Children stick this in their books as pre | independently | exceptional | Post it |
| between an obj material from w | | assessment. This could be scribed for them. You could provide a word bank for | | knowledge or children who | notes. Concept |
| made | | children of needed. This could be done in small groups where adult | | are struggling | Map in |
| maac | | scribes ideas and assesses children's pre-understanding of the topic. | | to participate. | |
| | | | | to participater | resources |
| WS: I can identi | fy and | | | | resources |
| WS: I can identi group using my | fy and | Slide 4- This is the objectives of the session. Stick this in the front of | | | resources Unit title |



| SE- I can identify materials and classify items. | Slide 5- Share LO for the session. Use the Symbols for Working Scientifically and Scientific Enquiry on a learning display, to make these a focus. Slide 6- Add to floor books and add post it notes through the unit. One colour for what they know and another for what they want to find out. Children to add questions on post it notes. Display throughout the topic and put on 'what we know' section once answered. Links to science capital with adding in scientists and jobs. | Whole class talk. This can be done as a whole class activity. | | Metal- aluminium foil, nuts, bolts, screws, coins, wire, paper clips, metal bottle tops, keys etc Wood- wooden lolly sticks, skewers, cocktail |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Slide 7- Share children the animation and the focus/problem of the session. Slide 8- Read to children. This puts the problem into context using Tim Peake. Slide 9- Place ALL materials in a table/floor all jumbled up. Teacher may want to make the glass one as an example using glass beads, bottles. Type of materials e.g. Metal- aluminium foil, nuts, bolts, screws, coins, wire, paper clips, metal bottle tops, keys etc Wood- wooden lolly sticks, skewers, cocktail sticks, pegs, twigs, tree bark, wooden spoons, small pieces of wood. Plastic- Plastic bags, cling film, bubble wrap, plastic cutlery, plastic packaging and bags, Lego or Duplo, bottle tops, pipe. Paper- writing paper, sugar paper, crepe paper, news paper, tissue paper, tracing paper, paper art straws, coloured sticky notes. Fabric- wood, fur, leather, suede, voile, netting, denim and cotton. Extension- can children find one item each for at least 2 other categories? Slide 10- Children to draw and label at least 2 things from the sorted debris. This can include items from around the classroom. | Mixed ability groupings Individually. Some children may need support with recording. | Question children's decisions and challenge misconceptio ns. Use WS assessment in resources | sticks, pegs, twigs, tree bark, wooden spoons, small pieces of wood. Plastic- Plastic bags, cling film, bubble wrap, plastic cutlery, plastic. Paper- writing paper, sugar paper, crepe paper, news paper, tissue paper, tracing paper, tracing paper, straws, coloured sticky notes. Fabric- wood, fur, leather, suede, voile, |



| | (Use sorting sheet from resources) Slide 11- Look at some of the items in each group, can children spot some similarities and differences. Jot down some of the words children use e.g. hard, brown, flexible, squishy, soft, dull, shiny, rough, smooth. | TTYP and share. | when marking. | netting, denim and cotton. |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------|----------------------------------|
| | Slide 12- Children reflect on the LO's using the unit title page. | | | |
| Week/Lesson 2 LO: I can identify and name a variety of everyday materials including wood, plastic, glass, metal, water and rock. | Slide 13- Mystery Bag. Teacher to do the first few items then allow children to be the teacher, feeling and describing the items. Place items in the bag such as teddy, hat, toy car, pine cone, nail, plastic bottle, wooden block etc. Can children guess within 8 clues. To extend, this can be done where children ask the questions and person with the bag can only answer yes or no. | Teacher to model then allow children to have a go. | Challenge any misconceptio ns. | Unit cover page. |
| WS: I can record my results in a table. SE: I can identify and classify different materials. | Slide 14- Share LO, WS and SE with children. Slide 15- Ask children, what are these objects made of? What would happen if the wooden spoon was made out of glass? Could it be made out of any other material e.g. metal? What happens if the metal keys were made out of fabric? What happens if the glass was made out of brick? Children to discuss these questions and suggest alternative materials. | ТТҮР | Can children apply to real life? | PSTT WS and SE Symbols. |
| | Slide 16- Ask children if they have any further questions or check to see if any of their questions have been answered. | ТТҮР | | |
| | Slide 17 and 18- Which one is the odd one out? Ask children which one is the odd one out and why? They may suggest the bat as the other 2 are chairs or may suggest the purple chair as the others are made of wood. | ТТҮР | | |



| | Slide 19- Show children the different categories. Think back to last lesson. What did we find that was made of metal? Write a list of the objects found. Repeat with the other 5 categories. What similarities and differences can we see with the items in each category e.g. metal= tough, shiny, smooth, hard (add words in a different colour) Fabric= soft, bendy, stretchy. Glass- Hard, see through, tough, breakable. Paper- you can bend it, light, flexible. Wood- hard, dull, rigid. Plastic- hard, squashable, see through. Slide 20- Children to watch this clip to reinforce objects made of multiple materials. Slide 21- Take children around the school, to see what materials they can spot around the school. You could use QR codes downloadable from PSTT website which you can stick to objects and when scanned with a QR scanner will tell the children what it is made of. Children to tally the different materials found around the school. Model completing the tally chart and crossing the tallies at 5. Slide 22- Lets reflect. Ask children the questions on the slide for children to reflect on the learning of the session. Slide 23- (Space link) If you were planning a trip into space what would you take with you and why? (Note this question can be changed to fit other topics) Children discuss the items they would | Whole class sharing. Teacher/TA to scribe vocabulary. Children to work in small groups but have own recording sheet to mark the tallies. | This is the WS assessment- criteria found in resources. Children self- evaluation. | WS assessmen t and LO in resources. |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------|
| | children to reflect on the learning of the session. Slide 23- (Space link) If you were planning a trip into space what would you take with you and why? (Note this question can be | | | Space suit outline. Unit title |
| Week/Lesson 3 | Slide 26- Ask children- what did we learn last lesson and children can recap. Now play materials bingo (in resources) Give a game card to pairs of children. (4 pictures on each card) | | Note any misconceptio ns or children | page. Materials bingo. |



| LO: I can describe the | Pick one of the calling cards e.g. say wooden bench. Children cross it | Children to work in pairs | who have not | |
|--------------------------------------------------------|-------------------------------------------------------------------------|---------------------------|---------------|--------------|
| simple properties of a | off if they have it. | to identify the material | retained any | |
| variety of everyday | | and item. | knowledge. | |
| materials. | Slide 27- Share LO, WS and SE for the session. | | kilowiedge. | |
| | | | | Range of |
| WS: I can ask and answer | Slide 28- Feely Walls. Teacher to collect a range of fabrics of varying | | | fabric |
| questions to group | texture and thickness and make a feely wall for the classroom | | | materials |
| materials. | display. Place 4 or 5 pieces of the same fabric from the wall into a | | | e.g. bubble |
| \frown | feely box bag per group (this can be extended for more able | | | wrap, |
| (222) | children). From each sample cut 2 squares of the same fabric to | Children describe the | | Astro turf, |
| | make 2 identical sets. As well as getting a range of textures also | textures. If they are | | felt, wool, |
| | chose some fabrics that feel similar to create a greater degree of | struggling with the | | cotton, fur, |
| SE: I can group and classify materials based on how | challenge. | vocabulary, provide | To challenge | corrugated |
| they feel. | | them with the | children you | card etc. |
| they leel. | Slide 29- Mystery bag. Give small groups of children their feely | vocabulary mat. | could add | |
| | box/bag. Let children feel the fabrics and discuss what they can feel. | | some sample | One set for |
| | After a few minutes ask if they can match the sample of fabric in the | | which do not | feely wall |
| - | box/bag with the feely wall, without taking it out the box. Repeat | | appear on the | and a set |
| | with the next child in the group. To challenge children, you could | Mixed group. | wall. | per group. |
| | add some sample which do not appear on the wall. | | | |
| | | | | |
| | Slide 30- Sit children in a circle on the carpet with sorting hoops and | | | |
| | a sample of all of the materials. Ask children- How could we sort the | | | Coins, |
| | materials based on how they feel? They do not have to be able to | | | paper clip. |
| | place all materials- explain the ones that do not fit the criteria stay | | | |
| | outside. Try out some of the children's suggestions e.g. bumpy and | | | Sorting |
| | smooth. Discuss which ones are the best categories and why (they | Whole class activity | | hoops. |
| | sort the most materials). When selecting materials get children | | | |
| | posing questions e.g. why would this material not find in this | | | |
| | category? Children have a go at sorting materials using sorting hoops | | | |
| | and different titles (Teacher/TA guided groups with more able | | | |
| | working independently). EXT- children could draw/take photographs | | Note the | |
| | with ipads/tablets/cameras their categories, children write groups | | vocabulary | |
| | | | | |



| | on labels using the word mat (provided in resources). Use this for evidence in books for the group and floor book. | | being used in the books. | |
|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| | Slide 31- Read that's not my book to the class (you can show read along on YouTube if you do not have the book). | | | Its not my book or You tube |
| | Slide 32- Cut out the rocket template to leave a hole (as in the snail picture) see resources. | | | read along. |
| | Children to take one of these each. Allow children to explore the school grounds and shout when they have found a material they want to use. They place their rocket on the material and describe the texture. Film the children saying- That's not my rocket, it is too bumpy. If a child finds a material similar to that of a space rocket e.g. metal pipe, plastic pipe and it looks like a space rocket. Provide them with the second template OR you could challenge 1 or 2 children with this template in the first place. Once you have recorded all children or taken pictures, you can put the clips or pictures together to make your own 'That's not my rocket' story book with the focus being on different materials and vocabulary. | Children can do this individually or in pairs. Give a couple more able children the 'That's my rocket' page as they need to hunt for a material that looks like what a rocket could be made out of and describe its properties. | Note children who are using the scientific vocabulary to describe materials. Use WS assessment in resources. | Rocket template in resources. |
| | Slide 33- Reflect on the learning objectives of the sessions using the unit title page. Tick the working scientifically and scientific enquiry covered. | | Children self- reflect. | Unit title page. |
| Week/Lesson 4 LO: I can compare and group together a variety of | Slide 34- Share with children the 'That's not my rocket' book or clip. (This would have been prepared before the lesson | Recap on language used to describe materials. | | PowerPoin t. That's not |
| everyday materials on the basis of their simple | Slide 35- share LO, WS and SE from the session. | | | my book or recorded |
| properties. WS: I can carry out a simple comparative test using my | Slide 36- Share fact- did you know that astronauts wear nappies! Ext-Share with children the You Tube Link on the screen <u>Astronauts</u> <u>Wear Adult Diapers During Spacewalks - YouTube</u> (Click on the | Ask children if they have any questions after | | clips from last lesson. |
| own ideas. | nappy to play clip) | watching the clip. | | |



| SE: I can compare the suitability of materials using a comparative test. | This explains why astronauts wear nappies and some other materials that are used on a space suit. Slide 37- Your task. Can you make the most absorbent nappy? Slide 38- Ask children, what does absorbent mean? Share the slide. Teacher demonstration with a sponge and plastic. Fill each beaker with the same amount of water, talk this through. Ask why would we need to put the same amount in each beaker (Just over half way is best). Discuss the concept of fair, even though this is a comparative test. Each piece of material also needs to be approx. same size and length. Dip the first sample in the beaker and leave for one minute- pull out of the water and allow the sample to drip before removing. Squeeze out the liquid that the sample has recorded and measure or measure the liquid left in the beaker one the sample has been removed. | Teacher demonstration. Pose questions throughout the demonstration and ask children for reasons why. | Note any misconceptio ns. | Sponge and plastic strip (same size) 2 beakers, water and a timer. Planning |
|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| | Slide 39- Children to use the planning sheet (in resources) to plan their comparative test. Model using slide 40 (Next slide) Place a selection of materials on the table with labels to make it easy for children to copy. Children select 4/5 materials they would like to test. Children to copy the test that the teacher has modelled. You can display the slide 41 to remind children of the process. Slide 40- Children to copy the names of the 4 or 5 materials they want to test into the box on the left. Children then look at each material and tick the number they think will be the most absorbent. Children to draw a picture of their test (once they know which sample they will be testing e.g. draw a beaker with their material inside. Children are not expected to label but it is good if they can. Slide 41- Children to work in small groups and choose one person to test each sample. Making sure they keep each aspect the same. | Mixed ability groups and targeted groups. You can extend more able children by asking them to test multiple materials based on their results. | Question children about their resources and note their accuracy in using resources. Praise for correct sci language used. | sheet. Selection of materials absorbent and not absorbent. |



| | Children to write their results on a whiteheard FVT to test we dive | | | |
|------------------------------|------------------------------------------------------------------------|-----------------------|---------------|--------------|
| | Children to write their results on a whiteboard. EXT- to test multiple | | | |
| | materials. | | | |
| | Slide 42 What did you find out? Children to foodback results Mas | | | |
| | Slide 42- What did you find out? Children to feedback results. Was | | | |
| | there anything that surprised them? | | | |
| | Chile 42. Channellite and the second second for an 2. Channel | | Use WS | |
| | Slide 43- Share slide- what does waterproof mean? Share | | assessment | |
| | information about Charles Macintosh – Science Capital. (Instead of | | on the sheet. | |
| | the Astro nappy or in addition to you could do an experiment | | | |
| | designing a waterproof raincoat or shelter. Using Macintosh as a | | | Unit cover |
| | stimulus. PSTT Standing on the Shoulder of Giants resource is good | | | |
| | for this.) | | Children to | |
| | | | self-reflect. | |
| | Slide 44- This is an extension activity. Children could use this | | | |
| | template and stick materials to the nappy to represent their results. | | | |
| | This could be the WS focus which would be recording. (See ladders | | | |
| | for assessment) | | | |
| | | | | |
| | Slide 45- Children to reflect on learning from the lesson using smiley | | | |
| | faces from unit cover and tick the WS and SE covered. | | | |
| Week/Lesson 5 | Slide 46- What have we learnt? Share the slide with children. Then | ТТҮР | Note | PowerPoin |
| | ask which is the odd one out and why. Plastic bag, glass, sponge. | | misconceptio | t |
| LO: I can compare and | Which one is the odd one out? Why? They may relate to the sponge | | ns. | |
| group together a variety of | being the only one being absorbent. They may say plastic and glass | | | |
| everyday materials on the | are strong. There are no wrong answers but challenge any | | | |
| basis of their simple | misconceptions. | | | |
| properties | | | | |
| | Slide 47- Share LO, WS and SE for the lesson. | | | Selection |
| WS: I can make predictions | | | | of opaque |
| based on the best materials | Slide 48- Pass around a selection of materials e.g. brick, wood, | | | and |
| to block out light and I can | metal, laminated pouch, mirror, greaseproof paper, black card, | Whole class activity. | Challenge use | transparen |
| report and interpret my | acetate, tissue paper, plastic etc (Examples of opaque and | Question children. | of scientific | t materials. |
| findings. | transparent materials) children to feel them and discuss the | | vocabulary. | |
| | properties of the materials. | | | |



| SE: I can carry out a comparative test. | Slide 49- NASA needs your help (This can be changed to match your topic) Read the problem to the children. Ask children who the astronaut on the page is (Tim Peake). Slide 50- Which material is the most opaque? Children to choose 4 to 5 pieces of material to test (provide children with opaque and transparent materials). Model using the rocket template with the window area cut out and children stick the materials on the back. Children shine the torch on the window to observe if the light shines through. Slide 51- WS Focus- Interpreting results. Children to use this writing frame to complete their interpretation of results. Slide 52- children to self-reflect using smiley faces on unit title page. Tick the WS and SE covered. | Mixed ability groups. Talk through the writing frame and ask children what they might write. Model write an example, Provide children with word bank if needed. | Question children about what they can see. Use WS assessment on the sheet. Children to self-reflect. | Rocket template- cut out window. Material samples opaque and transparen t. |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Week/Lesson 6 LO: I can compare and group together a variety of everyday materials on the basis of their simple properties WS: I can evaluate my test and suggest improvements. | Slide 53/54- Let's recap. Explore these questions with the children. Recap on the learning so far making reference to the previous tests. Slide 55- Share LO, WS and SE for the session. Slide 56- Ask children- which material is the most stretchy? Share slide. Present children with a range of materials- some that can be stretched and some that cannot e.g. blu-tac, plasticine, stone, elastic band, ruler. Slide 57- You may need to change these pictures depending on the materials you are going to test. Ask children 'how will we test which one is the most stretchy?' Nylon and lycra would also be good materials to test if you have any. | TTYP and share. | Challenge misconceptio ns and pose further questions. | Range of stretchy and not stretchy materials e.g. blutack, plasticine, ruler, stone, elastic band, |



| | | | | nylon, |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------|------------|
| SE: I can notice patterns in my results. | Slide 58- How can we measure how stretchy something is? Ask for children's ideas. Model the test with an elastic band. It is easier with an elastic band to hold one end with a pencil then stretch with | Teacher demonstration | | lycra etc |
| | another pencil. Children are measuring the stretch so from the | Mixed ability groups. | | Whiteboar |
| | elastic band being pulled tense to how far they can stretch without it | | | ds/paper. |
| | breaking. They can measure using a ruler (standard measure) or | | Check | |
| | cubes (non-standard measure). This is not the WS assessment for | | children's | |
| | this lesson so does not need to be too specific. Children could draw | | method of | |
| | a line on a page before the stretch and after the stretch and | | recording and | |
| | compare the lines (put in order). Children repeat with all the | | question | |
| | stretchy materials. Children to carry out their test. | | children. | |
| | | | Provide mini | |
| | Slide 59- Working Scientifically Assessment. I can evaluate my test | | demonstratio | Evaluation |
| | and look for patterns in my results. Talk to the children about their | Talk and share. | ns if needed. | sheet. |
| | evaluation. Children to look at their results to see which was the | Children talk to their | | |
| | stretchiest. Was this the same as their prediction? (Children circle | partner then complete | | |
| | on their sheet). We could improve our test by. Get children to | their evaluation. | | |
| | reflect on the test, they could say finding more materials to test, | Can use talk buttons for | | |
| | measuring with cubes instead of a ruler, recording the start and | less able to help them | Use WS | |
| | finish on a piece of paper, use string to measure the stretch. There | remember or adult can | assessment in | Evaluation |
| | could be a range of things children may suggest when talking about their results. | scribe if needed. | resources | sheet |
| | | | | |
| | Slide 60- Which material is the most stretchy? Share with children | | | |
| | information about space tethers and what they are made of. Why | | | |
| | would they need stretchy material for this? | | | |
| | Slide 61- Recap on LO, WS and SE using unit title | | Children self- | |
| | | | reflect. | Whiteboar |
| | | | | ds |
| | Slide 62-65 Knowledge assessment tests. You can use the written | | Use scores to | |
| | tests in resources if you prefer. | | help with | |
| | Slides 67-71 Answers. | | summative | |
| | | | assessment. | |



| Week/Lesson 7 | Slide 3- Share the Learning objectives, Working Scientifically and | This can be done in | Note any | Floor book |
|----------------------------|------------------------------------------------------------------------------------|--------------------------|----------------------------------|------------------|
| | Scientific Enquiry for these 6 sessions. | small groups or | children with | (optional). |
| LO: I can describe the | Slide 4- Share LO for the session. Use the Symbols on your working | independently | exceptional | Post it |
| simple properties of a | wall. | | knowledge or | notes. |
| <u>variety of everyday</u> | Slide 5- Add to floor books and add post it notes through the unit. | | children who | Concept |
| <u>materials.</u> | One colour for what they know and another for what they want to find out. | | are struggling to participate | Map in resources |
| WS: I can predict which | Children to add questions on post it notes. Display throughout the | | | |
| materials will be | topic and put on 'what we know' section once answered. | Whole class talk. | | Unit title |
| waterproof. | Links to science capital with adding in scientists and jobs. | | | page |
| | (This may have been updated at the end of the last materials unit) | | | |
| | Slide 6- Incy Wincy Spider- press play on the screen, children listen | | | |
| | to the clip. Tell children, we need to help Incy Wincy Spider- how can we do this? | | | |
| | | | | Plastic, |
| <u>SE- I can conduct a</u> | Slide 7- Ask children for their suggestions. They may say to make a | TTYP and feedback | | tissue, |
| comparative test. | shelter. | | Can children | paper, |
| | Ask- what sort of materials might we need so that Incy does not get | | relate to | metal, |
| | wet? Waterproof. Those that do not let the water through. | Children to touch and | previous | glass/mirro |
| $(\Delta \Delta)$ | | explore the materials in | lessons on | r, cloth. |
| | Slide 8- Lets sort these materials. Give children these materials. Ask | order to make their | waterproof | (these |
| | them to look at the materials and predict whether they would be | prediction. Children | materials? | materials |
| | waterproof or not. | sort into 2 piles | | can be |
| | Note- you can change these materials based on what resources you | (waterproof and not | | changed |
| | have available. | waterproof) | | based on |
| | | | | what you |
| | Slide 9- I can make predictions based on if a material is waterproof | Teacher to model | | , have) |
| | or not. Children to tick or cross the prediction column based on | completing the sheet. | | Recording |
| | how they have grouped the materials. | | How accurate | sheet- in |
| | Children to test their materials. Follow the instructions on the | | are the | resources. |
| | screen. (Children will need to hold or tape their material in place | Children to work in | predictions? | Beaker |
| | else it will fall into the beaker) After each material children tick on | small groups to | Question | Pipette. |
| | | complete their test. | | |



| | the test side of the sheet whether the material was waterproof or not. | | children on their choices. | |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------|------------------------------------------------------------------------|
| | Slide 10- Recap learning. Point to each material. Can children share some properties. Is the material waterproof? How do you know? | TTYP and feedback. | | |
| | Can children suggest more properties for each material? | Children self-reflect. | Use WS assessment to | Unit title page. |
| | Slide 11- Children reflect on the LO, WS and SE using the unit title page. | | assess learning. | page. |
| Week/Lesson 8 | Slide 12- Mystery Bag. Teacher to do the first few items then allow | Teacher to model then | Challenge any | Unit cover |
| L.O: I can compare and | children to be the teacher, feeling and describing the items. Place | allow children to have a | misconceptio | page. |
| group together a variety of | items in the bag such as teddy, hat, toy car, pine cone, nail, plastic | go. | ns. | |
| everyday materials on the | bottle, wooden block etc. Can children guess within 8 clues. | | | |
| basis of their simple | To extend, this can be done where children ask the questions and | | | |
| properties. | person with the bag can only answer yes or no. | | | |
| <u>WS: I can evaluate my</u> shelter. | Slide 13- Share LO, WS and SE with the children. | TTYP and feedback. | Do children have any questions | |
| | Slide 14- Lets recap. What did we learn last lesson? What does waterproof mean? Can you name some waterproof materials? Click on the link to play the short materials clip. <u>How to identify</u> | | about the clip or previous learning? | |
| SE: I can identify and | materials - BBC Bitesize | | icuring. | |
| classify different materials. | Slide 15- Lets think about the properties of these. Fabric= soft, bendy, stretchy. Glass- Hard, see through, tough, breakable. Paper- you can bend it, light, flexible. Wood- hard, dull, | | Note any children who struggle with this slide as it | |
| | rigid. Plastic- hard, squashable, see through. | | is a recap | Plastic, |
| | Slide 16- I can create a waterproof shelter for Incy Wincy Spider. What material will you use for the roof? What material will you use for the legs? How might you join the materials together? | | slide. | metal, paper, card (range of waterproof /not waterproof |



| | Children to think about these questions. Children should say something waterproof for the roof, something strong for the legs and something sticky to join together such as glue or cellotape. Provide a range of materials for children to choose from- make sure you also include unsuitable materials so children have to identify the best materials for the job. Slide 17- Shelters- share with children some different designs to give them inspiration. What shape will they make it? Think about the shape of your shelter and the materials of each part. Design your shelter on your sheet. Slide 18- Children then design their shelter, they can use the vocab bank on the screen to help label their shelters- you may need to add or remove words depending on the materials you are using. Children do not need to complete the evaluation yet. This will be after the test or next lesson if you do not have time. Slide 19- Now test your shelter. Now spray your shelter with water. Is Incy still dry? Slide 20- I can evaluate my shelter. Children to use the STEM sentences to support this. Children complete the bottom of their worksheet. Slide 21- Recap the LO, WS and SE for the lesson, children to | Teacher to model drawing and labelling the shelter with materials they will use. Talk about the evaluation as a class and model before children complete theirs. Children self-reflect. | Question children's material choices and design. Use WS assessment when marking. | materials), bubble wrap, cellophane , lollypop sticks, straws, pipe cleaners, plastic spiders, wooden skewers. Water sprayer. |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Slide 21- Recap the LO, WS and SE for the lesson, children to evaluate using the unit title page. | Children self-reflect. | | |
| <u>Week/Lesson 9</u> <u>LO: I can describe the</u> <u>simple properties of a</u> <u>variety of everyday</u> | Slide 22- Which is the odd one out? Children will come up with a range of reasons and explanations. The odd one out is the paper as it is not waterproof. (plastic, glass, paper) | TTYP and feedback | Are children applying their learning? | |
| <u>materials.</u> | Slide 23- Share LO, WS and SE for the lesson. Slide 24- Floating and sinking. Some materials float and some sink. | | | Tank of water, |



| WS: I can test different | Get a tank of water. Hold up a satsuma. Ask children if it will float | Teacher demonstration. | What do you | Satsuma. |
|-----------------------------|------------------------------------------------------------------------------------|-------------------------|-------------------------|---------------------|
| materials. | or sink. Now put the orange in the water, it floats! Now peel off the | | notice? | |
| () de | skin and do it again- it will sink. Invite children to look at the skin- | | | Cork, |
| | they should notice little air pockets. Now place the skin in the water- | | | coins, |
| | it floats. | | | feathers, |
| <u>SE: I can set up a</u> | | | | sponges, |
| <u>comparable test.</u> | Slide 25- Look at these materials, will they sink or float? | TTYP and feedback. | Ask children | spoons, |
| | Slide 26- Can you test them? How might you test if these materials | | why? | screws, |
| | will sink or float? | | | leaves and |
| $(\Delta \Delta)$ | Children should say they will put each item in the water one at a | | | stones |
| | time. Children to predict then record their results on their sheet. (In resources) | | | (these items can |
| | Slide 27- Using recording sheet in resources. | | | be |
| | Make your prediction first. Do you think it will float or sink? | Children to conduct | Use working | changed) |
| | Now test the material. Does it float or sink? | their test in small | scientifically | changeu |
| | | groups. | assessment to | Recording |
| | Children to test each material. | 0.000 | assess | sheet in |
| | | | learning. | resources. |
| | Slide 28- Children to recap on the LO, WS and SE for the lesson using | Children self-assess. | C | |
| | the unit title page. | | | |
| Week/Lesson 10 | Slide 29- Recap floating and sinking. Play clip on screen. | Children to watch and | Identify any | |
| LO: I can compare and | | pose questions. | misconceptio | |
| group together a variety of | Slide 30- Share the LO, WS and SE for the lesson. | | ns. | Tank of |
| everyday materials on the | | | | water, |
| basis of their simple | Slide 31- Let's apply our learning about floating and sinking. | | | plasticine. |
| properties. | Show children a ball of plasticine. Ask them to predict whether it | | | |
| WS: I can explain my | will float or sink. Then place in the water. (It will sink). | Children to practice | | You will |
| <u>results.</u> | Ask children what they think will happen if you change the shape? | making boat shapes to | | need one |
| | Make the plasticine into a boat shape and carefully place in the | make their shape float. | | for each |
| | water. (It will float) | | Challasses | table. |
| | Allow children to experiment with this- you can use tin foil. | | Challenge children's | |
| | | | choice of | plasticine, |
| | | | | tin foil, |



| to the materials over a (Lego characters work well f | at that will float and hold a character? | Children to make their | materials by | lolly sticks, |
|-----------------------------------------------------------|-----------------------------------------------|---------------------------|---------------|---------------|
| | [| | | |
| neriod of time . shape of their hoat and the | | own boat using the | asking them | corks, |
| | naterials that they are making their boat | materials of their | to describe | feathers, |
| from. Provide a range of ma | terials including plasticine, tin foil, lolly | choice. | the | paper, |
| sticks, corks, feathers, paper | , card, glue. Children to apply their | | properties. | card, glue |
| knowledge when making the | ir boat. | | | |
| Slide 33- children to test the | r boats with the characters on/in. Ask | | | |
| why do you think it floated? | | | | |
| | | | Use WS | Worksheet |
| Slide 34- I can interpret my i | esults. Children use the STEM | Teacher to model first, | assessments. | in |
| sentences to support their s | cientific explanation. | children to write | | resources. |
| (WS Assessment piece) | · | explanation on | Children to | |
| | | worksheet provided. | self-reflect. | |
| Slide 35- Children to reflect | on LO, WS and SE for the session. Use | | | |
| unit title page. | | | | |
| | | | | |
| Week/Lesson 11 Slide 36- lets recap. | | Children to talk to their | Target | |
| Will these items float or sin | ? | partner and offer | questions at | |
| L.O: I can identify and Can you identify the objects | and explain the properties of these | suggestions. | children | |
| name a variety of everyday materials? | | | based on your | |
| materials including wood, | | | ongoing | |
| plastic, glass, metal, water Slide 37- Share LO, WS and S | E with the children for the lesson. | | assessments. | |
| and rock. Slide 38- Magnets. | | | | |
| Explain to children that mag | nets come in all shapes and sizes. | | | |
| WS: I can use a sorting Children only need to under | tand at this level that some materials | | | |
| diagram to classify are attracted to the magnet | and some are not. | | | |
| materials. | | | | |
| Slide 39- Look at these mate | rials. Which of these materials do you | | | |
| (N) think will be magnetic? | | | | |
| Children to make a prediction | n. Hands up for magnetic and down for | TTYP and feedback. Add | | |
| SE: I can notice patterns in not magnetic. | | composite materials to | | |
| | pending on what materials you have | challenge more able | | |
| | s such as pencil sharpener, peg (2 | children. | | Range of |
| materials) for MA children. | | | | magnetic |



| | | | Ask children if | and non- |
|----------------------------|------------------------------------------------------------------------|-------------------------|-----------------|---------------|
| | Slide 40- Play Which materials are magnetic? - BBC Bitesize | | they have any | magnetic |
| | | | questions | materials |
| | Slide 41- Can you sort the materials into magnetic and non- | Children to sort the | about the | e.g. coke |
| | magnetic? Provide children with sorting hoops. | materials in small | clip? | can, |
| | Challenge more able children with objects part magnetic and | groups. | | paperclip, |
| | magnetic so would fit into two categories. | | | rubber |
| | Children to record on their worksheet (in resources) can be drawn or | | | duck, tin |
| | written. | | | foil, elastic |
| | | | | band, nails, |
| | Children to feedback their results. | | | fork, |
| | | | | wooden |
| | Slide 42- How many magnetic items can you find in the classroom? | Children to apply their | | spoon. |
| | You have 3 minutes to find as many magnetic items as possible. Use | knowledge by looking | Do they | (You can |
| | a magnet to check (Children do not need to bring the items back to | for magnetic materials. | understand | change |
| | the carpet, they just need to feedback) | Watch the children's | magnetic and | these |
| | | method- do they just | not magnetic? | materials) |
| | Slide 43- Children to reflect on the lesson using the unit title page. | look for metal items or | | Magnets. |
| | Colour the faces and tick the WS and SE covered. | are they just testing | Use WS | |
| | | everything? | assessment. | |
| Week/Lesson 12 | Slide 44- Lesson recap- magnetic or not magnetic? | Whole class discussion. | Challenge | |
| | Point to each item. Children put hand up for magnetic and down for | | misconceptio | |
| L.O: I can distinguish | not magnetic. | | ns and note | |
| between an object and the | | | children who | |
| material from which it is | Slide 45- Share the LO, WS and SE for the lesson. | | do not have | |
| <u>made.</u> | | | this concept. | |
| | Slide 46- Material game. Give each child a card (from resources). | | | |
| WS: I can ask questions to | Children must keep the card secret. Their material will be on the | | | |
| identify materials. | screen. | | | Materials |
| | Walk around the room until you meet another child. | Whole class | | cards |
| (222) | Take it in turns asking some of the questions- about properties of | participation. | | (resources) |
| | the materials (examples on the slide) | | | |
| | Can they guess the object? | | | |
| | If they do they swap cards. | | | |



| | All of the cards are on the screen so they can ask directed questions. | | | |
|---------------------------|------------------------------------------------------------------------|---------------------------|----------------|------------|
| SE: I can use my subject | | | | |
| knowledge to sort a range | Slide 47- Provide a range of materials, can children come up with a | | Teacher/TA to | |
| of objects. | range of ways to sort them based on their properties? | Group participation. | take pictures | Range of |
| | Take pictures of children's sorting criteria for use in floor books, | | and assess | materials. |
| | books or working wall. Assess children's ability to sort materials | | learning from | Sorting |
| | using all of their knowledge of materials. | | the unit- can | hoops |
| | | Children can complete | they apply all | Whiteboar |
| | Slide 48-50 Final knowledge assessment | individually, in pairs or | concepts? | ds. |
| | Slide 51- 55- Answers | as a class. | | |
| | Slide 57- Children to revisit concept map and add any new learning. | | | Camera |
| | Slide 58- Children to complete their concept maps. | | | |
| | Slide 59- Review LO, WS and SE and children to complete unit title | | | |
| | pages. | | | |
| Week/Lesson 13 | TAPS Assessment Op | portunity | • | |
| | | | | |
| | | | | |

| | Summer Term | | | | |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------|--|--|
| SUBJECT: Science | Topic: Plants | Year: 1 | TERM: Summer 1 - This is a 6-week topic with assessment opportunities. | | |
| | Pupils should be taught to: To identify and describe the basic structure of a variety of common flowering To identify and name a variety of common wild and garden plants including de WS Objectives: | | - | | |



| STRAND: | Pupils sho | ould be taught to: | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------------|
| Biology | Ol Pe Id | sking simple questions and recognising that they can be answered oserving closely, using simple equipment erforming simple tests entifying and classifying sing their observations and ideas to suggest answers to questions | in different ways | | |
| | | athering and recording data to help in answering questions. | | | |
| the flower/blossom. Can point out trees which lost their leaves and those who keep th Can point to and name parts of a plant. Can use simple charts to sort. Can use photos to talk about how parts to sort. | | n name trees and other plants they see regularly. n describe key features of the trees and plants e.g. shapes of leaves/colour of blossom. n point out trees which lost their leaves and those who keep them all year. o and name parts of a plant. n use simple charts to sort. Can use photos to talk about how plants change. | Leaf, flower, blosson root, seed, trunk, bra bud. Names of trees in loo wild flowering plants | anch, stem, ba cal area, garde | ark, stalk, en and |
| Learning Objectiv | ves | Whole Class Teaching including key questions | Recording of outcomes (Differentiated where appropriate) | Assessment Opportunities | Resources |
| retrieval quiz, sorti | sessment that ing activity, m | Slide 2) suits your class e.g. Concept cartoon (provided) Plickers Assessment (c atching activity, modelling activity. This should not be a whole lesson a ncept map on next slide. | | | ledge |
| Week/Lesson 1 LO: To identify and the basic structure variety of common plants including tr | e of a n flowering | Slide 3- Share the Learning Objective (LO), Working Scientifically (WS) and Scientific Enquiry (SE) for the unit. Introduce children to the symbols. Use the large symbols from the PSTT Website to display in the classroom. Slide 4- Share Lesson objectives, WS and SE for the lesson. For further subject knowledge you can follow the module on Reach Out CPD. (Link on slide) | | | PowerPoint PSTT symbols. |



| WS: I can make careful | | | Challenge any | Post it notes |
|-----------------------------|---------------------------------------------------------------------------------|-------------------------|-----------------|----------------------------|
| observations. | Slide 5- Children to add questions on post it notes. Display | Teacher to question | misconceptio | |
| Q | throughout the topic and put on 'what we know' section once | children and give | ns. | |
| | answered. This can be put in floor books. | children some prompts | | |
| | Links to science capital with adding in scientists and jobs. | as to what they might | | |
| | | like to find out. | If working in a | Concept men |
| | Slide 6- Concept Map. Provide children with their own copy (or | | group, note | Concept map- resources. |
| | group copy if preferred) Children to add any notes and stick in books | | down | |
| | after unit title. | Listen to children and | children's | |
| SE: I can find out how long | Children share some of their ideas and add to the floor book. | tell them to write down | ideas and | |
| different fruits and | Provide labels for SEN children to add to the parts they know or | things they can see or | level of | |
| vegetables take to grow. | language they have heard of. | what link. | knowledge of | |
| | | Can provide labels for | the topic. | |
| | Slide 7- Tiny Seed: Read Tiny Seed by Eric Carle or listen to the book | SEND children for | | |
| | in this slide. | support. | | Large paper/pens. |
| | Slide 8- Show children the slide with fruits on. | | | |
| | Do the children know the names of these fruits? | | | |
| | What sort of plants do they grow on? | | | |
| | How long do they take to grow? | | | |
| | Where do they grow? | | | |
| | You could invite someone who owns an allotment to come in or a gardener. | | | |
| | Slide 9-10- Do children know the name of the fruits and where the | ТТҮР | Note children | |
| | grow? TTYP and share. Answers are on the slide. | | who are | |
| | | | struggling to | |
| | Ask the children to touch and smell the fruits and veg- Look closely | | participate | |
| | with magnifying glasses, what can they see e.g. bumps, hairs, skin, | | and make a | Range of |
| | dots. | | targeted | fruit/veg, |
| | Children to draw a picture of their chosen fruit, looking carefully | | group with | magnifying glasses. |
| | with a magnifying glass to what they can see, not what they think they can see. | | adult support. | 5103553. |



| | Slide 11- I can observe carefully. | TTYp and feedback. | Assessment- | |
|---------------------------------------------|-------------------------------------------------------------------------|-------------------------|-----------------|---------------------------|
| | Ask children to look closely at the picture? What can they see? | | Can children | |
| | Encourage descriptive language. Click on the link for the Explorify | | use their | Lesson 1 sheet. LO and |
| | activity. Children revising their answers. Talk about the image when | | observation | WS |
| | not looking at the zoomed in version, it is harder to describe the | | skills to | Assessment. |
| | detail. | Individually. | describe the | |
| | Slide 12- What do these fruits look like on the inside? Children to | | fruits | |
| | choose another piece of fruit | | carefully. Use | |
| | Talk to children about carefully looking. | | WS | |
| | Model choosing one of the fruits/veg to draw on half a page (fold it). | | assessment in | |
| | Draw it large and add detail. | | resources. | |
| | Children to then choose another piece of fruit or veg and draw it on | | | |
| | half of the page. | | | |
| | Slide 13- How do we grow potatoes? TTYP | | | |
| | Show children a chitted potato. (See instructions on planting in | TTYP | | |
| | resources) | | | |
| | Ask children what they think the bits growing out of the potato are. | | | |
| | It's a different type of seed. Now plant the potato with the children- | | | |
| | see instructions. | | | |
| | Slide 14- Let's apply our learning. Explain to children that all of the | | | |
| | seeds are different. They look different and they can be different | | | |
| | sizes. | | | |
| | How do they think the plant grows from a seed? | | | |
| | Slide 15- What have we learnt? Children to reflect on the LO using | | Children's self | |
| | the unit title pages- colour the faces and tick the WS and SE covered. | | evaluation. | |
| | | | | |
| Week/Lessen 2 | Slide 16 Losson 2 let's recon provious learning | TTYP and share with the | | |
| Week/Lesson 2 | Slide 16- Lesson 2 let's recap previous learning. | | | |
| I.O. To identify and describe | What did we learn last lesson? Children talk to their partner. What | class. | | |
| LO: To identify and describe | do we know about seeds? | | | |
| the basic structure of a variety | There are seeds in fruit and vegetables. We know where they grow. | | | |
| of common flowering plants including trees. | Seeds come in different shapes and sizes. | | | |
| Including trees | | | | |



| WS: I can keep a diary to | Slide 17- Children to add questions on post it notes. Display | Children to write on | Challenge any | Post it |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------|--------------------|
| explain how a seed grows. | throughout the topic and put on 'what we know' section once | post it notes or | misconceptio | notes |
| | answered. (Add any post it notes to the page in the floor book) | teacher/TA could scribe. | ns | |
| | Links to science capital with adding in scientists and jobs. | | | |
| | Slide 18- Share LOs for the lesson with children. | | Question children | Jack and the |
| | Slide 19- Share Jack and the Beanstalk story (You may use a book if | Children to listen and | throughout | Beanstalk |
| SE: I can observe seed growth over time. | you have it) or play the audio on the screen. | think about what happens to the seed in | the story and relate to their | book (optional) |
| | Slide 20- How do plants grow from seeds? | the story. | knowledge | read along |
| | Give children the picture cards as above. Can children look closely | | about seed | included. |
| | and order from seed to plant. Why have they ordered the cards as | Individually, in pairs or | growth. | |
| | they have? | in small groups | | Seed |
| | | depending on the ability | Question | growth |
| | Slide 21- Were children correct? Go through the process. | of the class. | children on | sheet. |
| | Starts as a seed, the seed starts to take in water when the conditions | | their choices | |
| | are right. As the seed takes in water the seed coat swells and splits. | | for how they | |
| | A tiny root grows downwards and a shoot begins to grow upwards. | | have ordered | |
| | Foliage leaves start to grow at the end of the shoot. The leaves grow | | the cards. | |
| | bigger and the stem grows thicker and stronger. The roots get | | | |
| | bigger to support the plant. The leaves take the suns energy to grow and develop flowers. | | | |
| | Slide 22- Plant drama. | | | |
| | 1. Children are seeds- curl up in a ball. | | | |
| | 2. Seed starts to grow a root- put out foot across the floor. | Children listen to | | |
| | (Roots anchor the plant into the ground and soak up the water and | teachers explanation | | |
| | nutrients from soil) | and perform the | | Large |
| | 3. The shoot starts to grow- place out hand. (This will become the stem, a transport system for the water and nutrients to get to | actions. | | space. |
| | the rest of the plant) | | | |
| | | | | |
| | | | | |



| 4. The leaves get bigger and roots larger- stretch out fingers and start to stand up. (The leaves use light, air and water to make food for the plant) 5. Plants start growing more leaves- they get bigger and stem gets thicker and stronger- stand up straight with arms up and fingers outstretched. 6. The flower is the part of the plant that blossoms, fruit can grow from flowers. Repeat a few times, then ask children to grow without teacher commentary. Slide 23- What do plants need to grow? Click the link on the PP to BBC bitesize- this will give children visuals on what a plant needs to grow. Slide 24- Children to plant one seed using damp cotton wool and the other in soil. Soil- fill to top of container, place thumb 2cm into soil, place in seed and cover. Cotton- place a piece of cotton, then seed near the edge of the cup so children can see the germination and cover with damp cotton wool to make observations as this plant will not be as healthy as the other as it is not drawing nutrients from the soil. Once germinated and growing, you may wish to transfer to soil. These will need to be kept indoors until May to sow outside. Alternatively, you could plant cress. Share the is link to show the growth of the runner bean <u>Runner bean plants growing - KS1 Science - BBC Bitesize</u> Share the Growing bean time lapse with children to show how their bean should grow. Slide 25- I can keep a bean diary to explain how a seed grows. Day 1- planting day, children draw their plant in their diary. Label the seed. | Ask children what they can remember. Now show the pictures and ask children to repeat. Children to complete this task in small groups. | Can children remember each step? Question each step of the process e.g. why does the cotton wool need to be damp? What does the seed need to grow? | Cotton wool, water, soil, runner bean seeds (other seeds could be used e.g. cress) |
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| | Children record when there has been a slight change in their bean | Children to record | | Been diary |
|-----------------------------------------|------------------------------------------------------------------------------------|--------------------------|---------------|------------|
| | e.g. when they see the bean has split- record the day and draw what | individually | | sheet in |
| | they see. Label (with support) Children to draw the picture where | Adult can scribe or use | | resources. |
| | the red obs over time symbol is and write what is happening in the | QR codes to record | Use WS | |
| | box below. You may need to print in A3 if children need more space | children's ideas. | assessment | |
| | to write. TAs could scribe children's ideas if writing is a boundary. | | when marking | |
| | Slide 26- What have we learnt? | | the lesson. | |
| | Children to use the pictures to aid their explanation of today's | TTYP and share | | |
| | learning. | | | |
| | Growth of a seed | | | |
| | Conditions for growth. | | | |
| | | | Children to | |
| | Slide 27- Children to reflect on the LO's for the lesson, they can | | self-reflect. | |
| | colour the faces and tick the WS and SE covered in the session by | | | |
| | spotting the symbols. | | | |
| Week/Lesson 3 | Slide 28- Lesson 2 recap. | Whole class | Identify any | |
| | Ask children if they can identify the parts of the plant. Children to | participation. | misconceptio | |
| LO: To identify and describe | talk to their partner then come out to the front. | | ns. | |
| the basic structure of a variety | Can they remember the function of each part? | | | |
| of common flowering plants | | | | |
| including trees. | Slide 29 - Share LO for the lesson. | | | |
| WS: I can carefully draw and | Slide 30- We are going on a plant hunt. | | | |
| , label a plant. | Use the ID sheets laminated. How many of these plants can they | | | |
| | find outside? | | | Plant ID |
| $\langle \mathbf{n} \mathbf{n} \rangle$ | Also take out IPads with Plant ID app to identify any plants that you | | | sheets |
| (\mathbb{N}) | are unsure of. Teachers to note down other plants in the school. | Teacher to model | | Magnifying |
| | Children to take out magnifying glasses. You could get children to | expectations. | | glasses. |
| | draw their favourite plant outside or go to next slide where they are | | | 0 |
| SE: I can identify plants in the | drawing a Pansy and labelling. | | | |
| environment. | Slide 31- I can identify parts of a plant. | | | |
| environment. | Recap the task | | Use WS | |
| | Children need to look carefully at their plant (relate back to | Children can draw on | criteria when | LO and WS |
| | | | | |
| | obs skills) | paper and stick in books | marking. Can | assessmen |



| | - Can you identify the different parts as not all plants look the | books. LO can be stuck | the plant | tin |
|----------------------------------|---------------------------------------------------------------------------|---------------------------|----------------|------------|
| | same? | in with WS criteria. | correctly? | resources |
| | - Carefully draw and label your plant. | | | |
| | Slide 32- Children reflect on the Los for the lesson using the unit title | | Self- | |
| | pages. | | reflection. | |
| Week/Lesson 4 | Slide 33- Lesson 3 lets recap. | | Correct | ID sheets |
| LO: To identify and describe | Can you remember the names of the plants? | Children to identify | children and | (optional) |
| the basic structure of a variety | 1. Poppy 2. Buttercup 3. Rose 4. Primrose 5. Pansy 6. | different common | re look at ID | |
| of common flowering plants | Dandelion 7. Snowdrop 8. Dock | plants. Did they find | sheet if | |
| including trees. | 9. Stinging nettle 10. daisy 11. Cow Parsley 12. Shepherds purse. | these plants last lesson? | needed. | |
| - | You can provide children with the ID sheets to support if needed. | | | |
| WS: I can label parts of a | | | | |
| plant. | Slide 34- Share LO with children. | | | |
| | Slide 35- Plant Bingo. | | | |
| | Pick a calling card from a bag, describe the type of root or petal, | | | |
| (\mathbb{N}) | children listen to the description and decide whether they have this | Children to work in | | |
| | on their card. | pairs. | | |
| | Top row are types of roots | | | Bingo |
| SE: I can identify and classify | Second row types of leaves | | | cards and |
| parts of the plant. | Third row types of stems | | | calling |
| | Fourth row different common plants- use names when calling. | | | cards |
| - | Give out laminated bingo cards, children to cross off when they have | | | |
| | a type of root- this can be any when root is called, same with leaves, | | Teacher/TA to | |
| | stem and petals only specifics are the common plant names. | | question | |
| | | | children and | |
| | Slide 36- Parts of a plant. | | ask them to | |
| | Check understanding of the different parts of the plant. | | point to | |
| | Give children a pansy- one between two, children to dissect the | | different | Pansy |
| | plant by pulling the parts of the plant and classify on the plant | Work in partners. | parts for AfL. | plants |
| | diagram. Children to look closely at the different parts of the plant. | | | Magnifying |
| | Teacher/TA to spot any misconceptions, once children have sorted | | | glasses. |
| | the parts of the flower, they can use junk modelling e.g. egg boxes, | | | |
| | tissue paper, cardboard, pipe cleaners. Children can make their own | Children can work | Use WS | |
| | flower and label with flower, stem, leaves, roots. Use these for | individually, in pairs or | assessment | |



| | display. Take a picture of children's labelling for books. WS assessment is in resources. Slide 37- Examples of junk modelling flowers Remind children to label each part as this is the assessment of the activity. Children to share their flowers | in groups depending on the abilities of the class. | when marking and also AfL notes from the session. Children to self-reflect. | Junk modelling materials. |
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| | Slide 38- Recap on learning for the session. Use unit title pages. | | | |
| Week/Lesson 5LO: To identify and name a variety of common wild and garden plants including deciduous and evergreen trees.WS: I can ask yes and no questions to begin to classify.Image: Second s | Slide 39- Lets recap our learning for the session. Ose drift the pages. Slide 39- Lets recap our learning. Recap parts of a plant EXT- Can they remember the function of each part? Slide 40- Share lesson objectives with children. Slide 41- Read Leaf Man or listen to the read along in the slide. Click on the link. Slide 42- We're going on a leaf walk. Tell children that they will notice some trees with leaves (Evergreen) and some without leaves (deciduous). Children take leaf ID sheet with them and when they see either tree, they will look at their leaves and try and identify the name of the plant. Teacher to take Plant ID App to check any not on the sheet. Children to collect a sample of leaves as they go. How many different trees can they find? Slide 43- Leaf bingo: Children to look at their pile of leaves in small groups to see if they can find other ways to classify their leaves. | TTYP and share. Children to work in small groups to identify leaves. | Identify any misconceptio ns. Support children using the ID cards. | Leaf man book (optional) can use read along included. Leaf ID sheet. Leaf Bingo sheet. |
| | In Groups, children stick one example of each leaf found to a large A3 sheet and use the ID sheet again to identify the tree it came from. (Follow steps on slide 1- look at leaves, 2- do they have one leaf from the bingo sheet? 3- If children have any missing can they find one?) | | | |



| | | | 1 | |
|----------------------------|-------------------------------------------------------------------------|--------------------------|----------------|-------------|
| | Slide 44- I can identify different deciduous and evergreen trees. | | | Leaves |
| | In groups, children stick one example of each leaf found to a large | | | from last |
| | A3 sheet and use the ID sheet again to identify the tree it came | | Use WS | session or |
| | from. You can provide sticky labels to support with writing. So they | | assessment. | a selection |
| | are matching the leaf with the label. | | | of new |
| | Slide 45- I can classify leaves into groups. | | | ones- this |
| | Different types of leaves - BBC Teach this could be shown to children | | | can be |
| | if required. | Children can draw or | | pictures if |
| | How do children think these leaves have been grouped- rounded | stick the leaves on a | | needed. |
| | leaves/spikey leaves? | piece of paper, or you | | |
| | Children to have a go at classifying their leaves into groups. Children | can take a picture for | | WS |
| | can use sorting hoops to do this. They can choose how many groups | books/floor books. | Children self- | assessmen |
| | they need. | | reflect. | t and Lo in |
| | | | | resources |
| | Slide 46- Children to recap on the Los for the session- use unit title | | | |
| | page | | | |
| Week/Lesson 6 | Slide 47- Lets recap our learning so far. I can identify different | TTYP and share. | Identify | |
| | deciduous and evergreen leaves. | | misconceptio | |
| LO: To identify and name a | Can children remember the names of the leaves? | | ns. | |
| variety of common wild and | | Children to look closely | | Picture of |
| garden plants including | Slide 48- Meadow flowers- which ones can children identify | to see which common | | meadow |
| deciduous and evergreen | Daisy, dandelion, poppy, cornflower, dog rose, | flowers they can | | slide 55 |
| trees. | | identify. | | (optional) |
| | Slide 49- Share LO with children. | | | |
| WS: I can make simple | | | | |
| predictions | Slide 50- Which picture is the odd one out? | | | |
| | This will make children curious. There are no wrong answers but | TTYP and share ideas. | | |
| | encourage children to give reasons and explain. | | | |
| | | | | |
| | Slide 51- Why do leaves fall off trees? | | | |
| SE: I can observe types of | 1- sycamore 2- pine needle 3- holly leaf | | | |
| leaves over time. | Children will be making observations over time by soaking 3 leaves | | | |
| icaves over unit. | by soaking 3 paper towels in a tray of water and make observations | Teacher demo and | Use WS | Paper |
| | 1 by southing 5 paper towers in a tray of water and make observations | reacher active and | 000 110 | i upci |



| over time of how quickly they dry out when hung outside on a | | on prediction | water, |
|----------------------------------------------------------------------------------------------------|-----------------------|---------------|-------------------|
| washing line 'tree branch'. | | sheet. | waxy |
| 1- open one paper towel out to represent a broad deciduous leaf | | | paper |
| such as sycamore. | | | (greasepro |
| 2- roll another wet paper towel up tightly to represent an evergreen | | | of paper), |
| needle, and fold the third wet paper towel in half between wax | | | paperclip |
| paper and secure with a giant paper clip to represent the waxy surface of an evergreen holly leaf. | | | |
| | TTYP and share | | |
| Slide 52- Why do leaves fall off trees? Let's predict what might happen? | | | |
| Children to talk to their partner, which leaf will fall off first and why? | | | Prediction sheet. |
| Slide 53- Why do leaves fall off trees? | Teachers to model the | | |
| Children to talk to their partner, which leaf will fall off first and why? | recording sheet and | | |
| WS assessment and recording sheet in resources. | share vocabulary | | |
| Children to watch what happens over time to see which one falls first. | children can use. | | |
| You can check children's predictions to see if they predicted | | | |
| correctly- did anything surprise the children? | | | |
| | | Self- | |
| Slide 54- Read slide to children to describe the difference between deciduous and evergreen. | | reflection. | |
| | | Record quiz | |
| Slide 55- Share Los with children- children complete the unit title | | scores in | |
| page. | | children's | |
| Slide 56- Final Quiz. | | books. | |
| You may use the Plymouth Science Tests instead online | | | |
| Best practice is AFL throughout the unit to gather an accurate assessment. | | | |
| Slide 57- Answers from the assessment questions. | | | |
| | | | |



| | TAPS Assessn | ment Opportunity | | | |
|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | ere are options to do in | Year: 1 | TERM: Summ is a 7 week to assessment opportunities | opic with |
| • Ic • Ic | an observe changes across four seasons. an observe and describe weather associated with the sease | ons and how day leng | gth varies | | |
| As Ob Pe Ide Us | king simple questions and recognising that they can be ans oserving closely, using simple equipment erforming simple tests entifying and classifying sing their observations and ideas to suggest answers to que | estions | ays | | |
| Key Indi Can name Can observ Can descri | cators: four seasons and identify when in the year they occur. /e and describe weather in different seasons. be days being longer in summer and shorter in winter. | Weather (su (winter, sum | nny, rainy mer, spri | , windy, snowy e | |
| ives | Whole Class Teaching including key questions | outcomes | ted | Assessment Opportunities | Resources |
| | one block a Pupils sho I c US Objec Pupils sho As Ot Pupils sho As Ot Ot Ot Ot Ot Ot Ot Ot Ot Ot Ot Ot Ot | Topic: Seasonal Changes (This is best completed over the year but the one block also) Pupils should be taught to: I can observe changes across four seasons. I can observe and describe weather associated with the sease WS Objectives: Pupils should be taught to: Asking simple questions and recognising that they can be ans Observing closely, using simple equipment Performing simple tests Identifying and classifying Using their observations and ideas to suggest answers to que Gathering and recording data to help in answering questions Key Indicators: Can name four seasons and identify when in the year they occur. Can observe and describe weather in different seasons. Can describe days being longer in summer and shorter in winter. Present data in tables charts and compare seasons. | Pupils should be taught to: I can observe changes across four seasons. I can observe and describe weather associated with the seasons and how day leng WS Objectives: Pupils should be taught to: Asking simple questions and recognising that they can be answered in different w Observing closely, using simple equipment Performing simple tests Identifying and classifying Using their observations and ideas to suggest answers to questions Gathering and recording data to help in answering questions. Key Indicators: Can name four seasons and identify when in the year they occur. Can observe and describe weather in different seasons. Can describe days being longer in summer and shorter in winter. Present data in tables charts and compare seasons. Whole Class Teaching including key questions Recording of outcomes (Differentiar) | Topic: Seasonal Changes (This is best completed over the year but there are options to do in one block also) Year: 1 Pupils should be taught to: 1 I can observe changes across four seasons. I can observe and describe weather associated with the seasons and how day length varies WS Objectives: Pupils should be taught to: • Asking simple questions and recognising that they can be answered in different ways • Observing closely, using simple equipment • Performing simple tests • Identifying and classifying • Using their observations and ideas to suggest answers to questions. Key Indicators: Can name four seasons and identify when in the year they occur. Can abserve and describe weather in different seasons. Can describe days being longer in summer and shorter in winter. Present data in tables charts and compare seasons. west Whole Class Teaching including key questions Recording of outcomes (Differentiated | Topic: Seasonal Changes (This is best completed over the year but there are options to do in one block also) Year: 1 TERM: Summing a 7 week to assessment opportunities Pupils should be taught to: I can observe changes across four seasons. I can observe and describe weather associated with the seasons and how day length varies. WS Objectives: Pupils should be taught to: . MS Objectives: Pupils and recognising that they can be answered in different ways . Observing closely, using simple equipment . . Performing simple tests . . I dentifying and classifying . . Using their observations and ideas to suggest answers to questions. . Key Vocabulary Can name four seasons and identify when in the year they occur. . Weather (sunny, rainy, windy, snowy et (winter, summer, spring, autumn) sun, sunset, Day length Wrest data in tables charts and compare seasons. . . Assessment opportunities Whole Class Teaching including key questions Recording of outcomes (Differentiated . . </td |



Choose the pre assessment that suits your class e.g. Concept cartoon (provided) Plickers Assessment (online quiz) Mind mapping, KWL chart, Knowledge retrieval quiz, sorting activity, matching activity, modelling activity. This should not be a whole lesson and should take no longer that 15 mins. Our recommendation is using the concept map on next slide.

| Week/Lesson 1 | Slide 3- Ask children what they know about seasonal changes either | This can be done in | Note any | Floor book |
|-----------------------------|------------------------------------------------------------------------|------------------------|-----------------|-----------------------|
| | individually or as a group. Scribe children's answers and vocabulary. | small groups or | children with | (optional). |
| LO: I can observe the | Do they children know what the pictures on the concept map | independently | exceptional | Post it |
| changes across four | represent? | | knowledge or | notes. |
| seasons. | Slide 4- Ask children what they already know about seasonal | | children who | Concept |
| | changes and weather and scribe any questions the children want to | | are struggling | Map in |
| WS: I notice similarities | find out. | | to participate | resources |
| and differences within the | Slide 5- Share Learning Objectives for the topic and the range of | | | |
| seasons. | Working scientifically and scientific enquiry which will be covered. | | | Unit title |
| \frown | | | | page |
| (\bigcirc) | Slide 6- share the LO, WS and SE for the lesson. | | | |
| | Slide 7- Children to discuss the pictures in small groups, then ask | This can be done in | | Print slide |
| | them to share what they have spotted. Teacher/TA to scribe ideas | small groups or kept | | 7 for |
| | on post it notes and add to pictures in floor book/display. Explain to | together as a whole | | tables. |
| SE- I can identify the four | children that these pictures represent 'typical' seasons. Explain the | class activity. | | |
| seasons. | 4 seasons: Summer, autumn, winter and spring. (Print this slide to | | | |
| | place on children's tables). | | | |
| | Slide 8- Read this book to children or watch the read along. | | | Lesson 1 resource. |
| | SNOW RABBIT, SPRING RABBIT, READ ALOUD BY MS. CECE - | Whole class listening. | | resource. |
| | YouTube | Ask children to | | |
| | Or play the read along on the screen. | OBSERVE what is | | |
| | | happening in each | | |
| | Slide 9- Children to sort the items of clothes with the seasons, | season. | Question | |
| | children may have different thoughts, this will make good | | children's | |
| | discussion. | | decisions and | |
| | Children to complete their cut and stick sheet sticking the clothes in | | challenge | |
| | the correct columns. | | misconceptions. | |
| | Share as a class- show next slide. | | | |
| | Slide 10- Share typical answers, did children have anything different? | | Use WS | |
| | Why does our clothes change depending on the season? Children | | assessment in | |



| | may talk about weather and temperature. Also they may mention activities they may do in each season. Slide 11- There are 4 seasons. Reveal pictures. Can children say which season it is based on the pictures? Extend children by asking why and asking them to respond in full sentences. Slide 12- Recap on LO, SE and WS- children to revisit the unit title page and reflect using the faces and tick the WS and SE covered in the lesson. They may also recap on the vocabulary. | Children complete independently but can talk and discuss on their tables. | resources when marking. |
|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Week/Lesson 2 LO: I can observe the changes across four seasons. Today's focus= Autumn | Slide 13- Let's recap- Children listen to the song and try and join in. Did children observe anything different in the song to add to their knowledge of seasons? Slide 14- Share LO, WS and SE with children. | | Challenge any misconceptions. |
| WS: I can predict what colours are hiding in my leaf. SE: I can look for patterns with the colours found in different leaves. | Slide 15- Ask children, what do you know about autumn? Take some suggestions. Now share pictures on the slide. Do they have any further ideas? SK- 1, leaves start to change colour- when there is less sunlight, deciduous trees stop producing chlorophyll, which they use to convert light into energy to grow. Chlorophyll is the pigment that gives leaves their green colour. When production slows down, the chlorophyll fades and yellow and red pigments are revealed. 2- Migrating birds- many birds including nightingales, cuckoos, swifts and swallows fly south to warmer climates for winter 3- Fruits for foraging- late Aug/Sept is prime time for blackberries. Badgers, foxes and small birds all feast on these fruits in autumn and they provide a valuable source of energy and nutrients. 4- Falling seeds- many tree seeds ripen and fall to the ground-acorns, conkers and beech mast. Some trees rely on the wind to spread their seeds. | ТТҮР | Challenge misconceptions and note any children who have exceptional or limited knowledge. |



| 5- Fungi- Damp weather provides ideal conditions for fungi to grow, | | | |
|------------------------------------------------------------------------|--------------------------|-----------------|-------------|
| so autumn is where many species thrive | | | |
| 6- animals gather food in preparation for the coming winter. Animals | | | |
| with fur start to grow a thicker coat. | | | |
| | | | |
| Slide 16- Ask children if they have any further questions or check to | Whole class | | |
| see if any of their questions have been answered. | discussion. | | WS |
| | | | assessmen |
| Slide 17- Autumn 'falling into place' from Explorify. Click on the | | | t and LO in |
| Explorify link on the slide- ask children to observe what is | Children to watch and | | resources. |
| happening. <u>Falling in to place – Explorify</u> | observe. | | |
| Click on the Explorify link to play a short clip showing the signs of | | | |
| Autumn. | | | |
| | | | |
| Slide 18- Why do leaves fall off trees? Ask children. Children would | | | |
| have covered this in the plants unit and conducted an experiment. | TTYP and share | | |
| Children may not know if you are teaching seasonal changes before | | | |
| plants. | | | |
| ANSWER- So that trees can survive the winter. During that process, | | | |
| the trees lose a lot of water- so much water that when winter | | | |
| arrives, the trees are no longer able to get enough water to replace | | | |
| it. They fall off when they are not doing their job anymore, using the | | Can children | Leaves |
| sun to turn into food for the tree. | | use equipment | from |
| | | safely? Ensure | school |
| Slide 19- Let's investigate. Why do leaves change colour? | | children are | ground or |
| Follow the steps on the screen. | | following H and | pre |
| 1- Go outside in small groups to collect a different leaf for each | Children to go outside | S guidance. | collected. |
| person in the group. Teacher demonstration with spinach leaves | in small groups, each | | Spinach, |
| also works really well. (Note- if you pick an evergreen leaf, you will | person in the group to | | clear jars |
| see shades of green, if you have a deciduous you will see some | collect a different leaf | | or beakers, |
| yellow) | if they can. | | surgical |
| 2- Break the leaves into tiny pieces and put into a jar or beaker. | | | spirit. |
| 3-Teacher/TA to add some surgical spirit to cover the leaves. | | | Spoons. |
| | | | Bowl |



| 4- Using a spoon, mash the leaves into the surgical spirit- take care | | | Hot water |
|--------------------------------------------------------------------------|------------------------|-------------------|-------------|
| not to splash the liquid. They key is to mash the leaves thoroughly. | | | Cling film. |
| NOTE- IF CHILDREN GET SURGICAL SPIRIT ON THEIR SKIN, RINSE | | | U U |
| UNDER COLD WATER IMMEDIATELY. | | | |
| 5- Cover the jar/beaker with cling film. Place the jar into a small | | | |
| bowl of hot water. (Ensure children do not touch the hot water) | | | |
| 6- Wait for 30-45 mins, stirring occasionally- the alcohol should be a | | | |
| very dark green- leave longer if needed) | | | |
| | In pairs or small | | |
| Whist children are waiting move to slide 21 | groups. | This is the WS | |
| Children to draw some dots of colour on filter paper with felt tip | | assessment- | |
| pens. Use a pipette and place a few drops of water on each dot. | | criteria found in | Lesson 2 |
| Wait and observe- what do children notice? | | resources. | resource. |
| Children will notice- some unexpected colours in the inks spread | | | |
| across the paper. It is important for children to know that these | | | |
| colours have been there all the time but we don't see them because | | | |
| they are hidden by the main colour of the pen. | | | |
| Slide 22- Children to PREDICT what colours are hiding in their leaf. | | | Unit title |
| Children to draw a picture of their leaf and colour it in with the | | | page. |
| colours they think they might find inside e.g. yellow/orange/red or a | | | |
| mixture. Children to use the STEM sentence to write under their | | | |
| leaf. Stick in LO and children to draw leaf and write sentence below. | | | |
| Stick WS assessment under that. | | | Filter |
| | | | paper. |
| Now go back to slide 20 (After 30-45 mins) Give children pre-cut | Children to work in | | |
| strips of filter paper and place into the jar so it reaches the liquid | their groups and | | |
| (tape the top of the strip over the top of the jar. | observe over time. | | |
| The liquid will travel up the filter paper and the colours will separate | | | |
| as the alcohol evaporates off the coffee filter. Leave this for about | | | |
| an hour for full effect. Children can come and observe later in the | | Note on | |
| day or the next day. Take a picture for working walls or floor books. | | planning if | |
| Note- The leaves we used turn to a beautiful yellow in autumn. Each | | children have | |
| leaf collected will give a different colour. | Whole class discussion | understood | |
| | | concepts. | |



| | Slide 23- so what is happening? Read the slide to the children. The main point they need to note is that there is less sunlight, they don't need to worry out chlorophyl (there for extra info and to stretch MA children) SK- As we know, Chlorophyll gives leaves their green colour and is so dominant it hides the other colours in the leaves. But in autumn, chlorophyll in the leaves breaks down allowing the other colours to finally shine through and show their beautiful reds, yellows, and oranges. Slide 24- Lets recap. Ask children the questions on the slides, can children look for patterns? Slide 25- Recap on LO, WS and SE- children to use unit title page to reflect on their learning. | | Children self- evaluation. | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------|
| Week/Lesson 3LO: I can observe the changes across four seasons.Today's focus= WinterWS: I can explain what winter feels like.WS: I can observe how | Slide 26- Recap- why do leaves change colour and why do some leaves fall off the trees? Children TTYP and feedback then share some answers. Slide 27- Share LO, WS and SE for the lesson. Slides 28 -click on the explorify image. This will take you to a zoomed in image, spend some time on each slide asking children to look closely and predict what they think it might be? Do their predictions change after any slides? Why? Slide 29- Ask children- have they ever seen or experienced snow? What did they feel? See? Gather words and statements from children (capture children's thoughts and put on post its around the picture, in floor books/display) Slide 29- How is snow formed? Read the slide to the children (EXT lesson- a comparative test about melting ice- what substance melts ice the quickest) Slide 30- Let's grow our own crystals. Follow the instructions on the screen. | TTYP to see what children can remember. | Question children when they are conducting experiment- | Beaker Epsom salt Hot tap water Pipettes food |



| 1- In the beaker, stir ½ cup of Epson | alt with ½ cup of very hot tap think you might color | ouring |
|-----------------------------------------|------------------------------------------------------|---------|
| water for at least one minute. | | tional) |
| This creates a saturated solution. Yo | | - |
| bottom of the beaker. | to snow acce | ess. |
| 2- Add a couple drops of food colou | ng if you want your crystals to crystals? | |
| be coloured. | | |
| 3-Put the beaker in the fridge | | |
| 4- Check on it in a few hours to see | beaker full of crystals. Pour off | |
| the remaining solution to examine the | m. | |
| Note- Epsom salt is another name for | he chemical magnesium | |
| sulphate. The temperature of the wa | er determines how much | |
| magnesium sulphate it can hold; it w | dissolve more when it is | |
| hotter. Cooling the solution rapidly e | courages fast crystal growth, | |
| since there is less room for the disso | ed salt in the cooler, denser | |
| solution. As the solution cools, the n | gnesium sulphate atoms run | |
| into each other and join together in | crystal structure. Crystals | |
| grown this way will be small, thin, ar | numerous. | |
| Slide 31- Let's make snow. | | |
| Recap how snow is formed. | In small groups Baki | ing |
| Follow instructions on the screen. | soda | - |
| 1. Pour 3 cups of baking soda in a bo | whit | te hair |
| 2. Add ½ bottle of white hair condition | er gradually and stir. | ditione |
| 3. As it starts clumping together use | pur hands to mix together. | |
| Note- Recap first- how is snow form | ? | |
| There are many recipes for making s | | |
| ingredients, others have shaving foa | | |
| If you have time, it would be great to | | |
| compare the snow samples you have | | |
| This also works with equal amounts | | |
| and adding water as you go to the co | | |
| You can also use nappies to make sn | v! | |
| | Use WS | |
| | assessment on | |



| | (NOTE- You may decide you only have time to make either crystals or snow) Slide 32- WS Focus- I can explain what winter feels like? Discuss winter as a class and what it feels like. How is it different to autumn, summer and spring? What words would they use to describe winter? Recap back to the brainstorm at the beginning of the lesson Children to complete their own brain storm with words or phrases to describe winter. Children may also add drawings or labels. Slide 33- Recap on LO, WS and SE. Children to use unit page to reflect on the lesson and tick the WS and SE covered. | Children may need support with some scientific vocabulary. TA could work in a small group and scribe ideas if recording is a barrier- use A3 paper to record, | resource sheet when marking. Children self reflect. | Lesson 3 resources. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Week/Lesson 4LO: I can observe the changes across four seasons.Today's focus= Spring WS: I can record different signs of spring using labelled diagrams and pictures.Part 1 SE: I can identify signs of spring. Part 2 SE: I can compare my results to research about | This lesson has an extension lesson if you wish to use it. This is why there is a part 1 and part 2. Simply delete the part you wont be teaching from the slides if only doing one part of it. Slide 34- What have we learnt so far? Ask children to look at the pictures on the screen, which season do they show? (Autumn/Winter) What are the differences between the two seasons- ask children for suggestions. You may wish to stick these pictures on a whiteboard/flip chart/ floor book and scribe their ideas. They may come up with the following: Autumn- windy, fairly cold, leaves falling, orange and red colours, some sunshine Winter- Really cold, snow, ice, frost, slippy surfaces, warm clothes. Slide 35- Share LO, WS and SE for the lesson. | TTYP and share | Note children who cannot describe the seasons- you may want to do a targeted session recapping with these children. | |
| rainfall in different seasons | Slide 36- Which one is the odd one out? Children look at the pictures and discuss with their partner about which one they think is | TTYP and share. | | |

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| the odd one out. Encourage children to use the STEM sentence to answer. | | | |
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| Slide 37- Spring- What do you think of when you hear the word spring? Chn talk to their partner and feedback. Children to watch the clip of spring- provide children with scrap paper or a whiteboard so they can take notes/make jottings about what they see. EXTENSION -KS1 Dance: Time to Move. Spring in the garden - BBC Teach you could use these resources if you wanted to link with a PE stimulus. Slide 38- Spring. Take children on a spring walk (If this is being taught in spring) If not use the extension part of the lesson. Give children the spring spotters guide from Nature Detectives. If you are teaching this unit in spring the take children on a spring walk. Go hunting around the school grounds and local environment for signs of spring. Use spotter sheets in resources to see what children can find this can include: blossom, frogspawn, butterflies, caterpillars, catkins, birds and birds nests, spring flowers such as snowdrop, daffodil, primrose, crocus, buds appearing on branches and shoots appearing through soil. Children could make a journey stick or a spring time bracelet using a strip of card with double sided tape and secure items to. This makes a good memory prompt about the things they have found along the way. Slide 39- What does spring feel like? Children use memory sticks and spotters guide to record all of the signs of spring. Remind children to label their pictures. Slide 40- EXTENSION LESSON OR ALTERNATIVE LESSON EXT or alternative lesson- This can be done in addition to the spring walk or instead of. | Children to go out as a class, stop as certain points if children spot something. Let children explore. | Question children, encourage them to look closely for signs and compare with their spotter sheets. Use WS criteria on resources. | Spring spotters Guide- Nature detectives. Binoculars/ mag glasses (optional) Lesson 4 resources. |
| 1 | 0. • • Per | | |



| | Ask shildren the superior secontain they usin helps this | | | |
|-----------------------|-------------------------------------------------------------------------|---------------------|-----------------|--------------|
| | Ask children the question, ascertain thar rain helps things grow such | | | |
| | as new shoots, plants. | | | D 111 |
| | In spring, we have lots of sudden showers. Our task is to make a rain | | | Bottle per |
| | gauge so we can measure the rain. | | | group. |
| | Teachers will need to cut the top off (approx. 10 cm from the top | | | Measuring |
| | but does not need to be exact). Follow the instructions on screen. | | | cylinder. |
| | - Place the top of your bottle upside down in the main part of the | | | |
| | bottle. This will stop leaves getting in your bottle. | | | |
| | - Take your bottle outside and bury it into the ground (about 5cm | | | |
| | in) so it doesn't blow over, you may want to put some small stones | | | |
| | in the bottom. NOW WAIT FOR RAIN. | | | Recording |
| | | | | sheet part |
| | Slide 41- When you have rainwater. | | | 2 in |
| | 1- Place a funnel inside a measuring cylinder | | | resources |
| | 2- Pour your rain water into the funnel and read the scale to find | | Can children | |
| | out how much rain you have collected. | | use equipment | |
| | 3- You can repeat this on different days if you have time. | Children may need | safely? Use WS | |
| | | support reading the | criteria on | |
| | Slide 42- How much water did you collect? Read the scale carefully | scales. | resources. | |
| | on the cylinder- this could be done using cubes (nonstandard | | | |
| | measure) | | | |
| | Slide 43- Children to compare their results with the average. | | | |
| | Ask children to look at the graph. | | Children self | Unit title |
| | Which months have the most rainfall? How do they know? | | reflect. | page |
| | Which has the least? What season is this? | | | |
| | How much rain did the children collect- does this fit with this | | | |
| | pattern? | | | |
| | Slide 44- Recap on LOs for the session and children reflect using their | | | |
| | unit title page. | | | |
| Week/Lesson 5 | Slide 45- Lets recap what we know so far. | | Note which | |
| | Check children's knowledge with this knowledge quiz. This can be | | children have a | |
| LO: I can observe the | done in pairs, individually or small groups. It is good to get children | | solid | |
| changes across four | discussing the answers first rather than just hands up as it | | understanding | |
| seasons. | empowers those who do not know the answer. | | and those who | |



| | | 1 | 1 | 11 |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------|
| Today's focus= Summer WS: I can evaluate my test by suggesting simple improvements | Slide 46- Share LO, WS and SE for the lesson. Slide 47- Summer- Ask children what do they think of when they hear the word 'summer?' Brainstorm words and phrases around the picture (this could be stuck in floor books) | | may require pre-teaching. | |
| | Slide 48- The sun. Children TTYP about what they know about the sun then share the facts on the screen. | ТТҮР. | | |
| SE: I can carry out a comparative test. | Slide 49- Why is it dangerous to look at the sun? Discuss the questions on the slide. Children can use the picture to prompt sun hat, sun cream, sun glasses, cover skin, they may add drink plenty of water. Share facts. | | | |
| | Slide 50- Lets investigate the sun's rays. Thread some UV beads on a pipe cleaner and give to children (this will prevent them dropping everywhere) Take children outside briefly so they can see their beads change colour. Explain that the darker the colour the more sun UV rays. Go back inside- ask- why have the beads gone back to colourless? (No sun) | Children to have own UV beads to observe. | Question what children notice. | UV Beads Pipe cleaners. |
| | Slide 51- Print this page and take outside. Take the children to the different areas of the school so they can look at what happens to their beads. Children to wear their beads on their wrist (using pipe cleaner to attach) and cover with jumper sleave until they get to the area, ask children to make a prediction about the colour using dark, quite dark, light, very light (record majority) then take them out and observe the colour (record the colour) agreed by majority of children. You could get children recording their own observations and change the focus to recording if required. Repeat in different areas. | Work as a whole class and take children's suggestions to record on class recording sheet. | | Print slide 58. |
| | Slide 52- EXT outdoor activities. If time | | | |



| | If you are doing this in the summer, you could make solar ovens and cook smores in. Children could also observe shadows in the playground and draw around their shadows. Slide 53- What have we found out? (WS assessment) Children to talk to their partner. We found that the sun rays are greater in (playground/exposed) area of the school because (there is no shade or none of the suns rays have been blocked). The (more) shade we had the (less) sun rays we felt, If we did this observation again, I would (suggestions such as try at different times of the year, in different weather e.g. cloudy day, rainy day or on different days. They may mention trying at night, dawn, dusk etc) Children to use recording sheet to record their thoughts. MA children may not need the writing frame, they may wish to use the STEM sentences on the board to copy or they may write their own observations with pictures and suggest ways they would improve next time. | Whole class discussion. Children individually complete sheet. | Use WS assessment on sheet when marking. | Lesson 5 resources. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| | Slide 54- Recap LO, WS and SE- children reflect on unit title page. | | reflect. | |
| Week/Lesson 6 LO: I can observe and describe weather associated with the seasons and how day length varies. WS: I can ask simple questions about what is | Slide 55- Give children Seasons recording sheet- or use Lo and WS and children to draw into books. Discuss the four seasons and the sorts of things that they would expect in those seasons. Ask children to draw their interpretation of the seasons, this may be a range of pics e.g clothes and weather or it may be trees showing seasons. Leave it up to the children to choose. Share pictures. Talk about the typical weather in each season. | Children to complete independently. | Question children and recap on lessons if they are struggling or give them a template of a tree and they can use this to | Lesson 6 recording sheet in resources. |
| going on and make careful observations. | Slide 56-Share LO, SE and WS for the lesson. Slide 57- Typical weather in each season. | | support. | Globe Torch. |



| ??? Q | Demonstrate how the tilt of the Earth's axis means that we have more sunlight during the summer than the winter. Children should begin to understand that we have more sunlight in the summer and less in the winter. | Teacher modelling- ask children to support with the demonstration. | | |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------|--------------|
| | Teacher guidance for explanation visit <u>Earth's Tilt 1: The Reason for</u> | | | |
| SE: I can identify different | the Seasons - YouTube | | | |
| clouds and understand how | | | | |
| they are formed. | Slide 58- Demonstrate how the tilt of the Earth's axis means that we | | | |
| | have more sunlight during the summer than the winter. Children | | | |
| | should begin to understand that we have more sunlight in the | | | |
| | summer and less in the winter. | | | |
| | Teacher guidance for explanation visit <u>Earth's Tilt 1: The Reason for</u> | | | |
| | the Seasons – YouTube. Use a globe and a torch to demonstrate | | | |
| | this. | You can show children | | |
| | OR <u>Seasons and the Sun: Crash Course Kids 11.1 - YouTube</u> | this clip if needed. | | |
| | Slide 59- What are clouds? Children TTYP then share facts. | | | |
| | Slide 60- Children to use the cloud viewers (you may want to print | | Can children | Cloud |
| | and laminate and cut out the middle) children to hold up the cloud | Children to have a | describe what | viewers in |
| | cards to the sky and try to identify the type of clouds they can see. | viewer one between 2. | they see and | resources. |
| | Ask children to keep asking questions about the shapes and patterns | | identify on the | |
| | of the clouds to identify the clouds in the sky. | | viewer? | |
| | SK- Clouds- Show children examples of cirrus, cumulus and stratus | | | |
| | clouds. Use the meaning of the names of each cloud to help children | | | |
| | remember them. Discuss how cloud formations can indicate what | | | |
| | kind of weather we might be about to experience. Would cirrus | | | |
| | clouds indicate a heavy rainstorm? What do darker clouds often tell | | | |
| | us? Cirrus- from the Latin 'cirrus' meaning lock or curl of hair | | | |
| | Cumulus- 'cumulo' means heap or pile in Latin. Stratus- from the | | | |
| | Latin prefix 'strato' meaning layer. | | | Clear glass, |
| | | Creall ground | | warm |
| | Slide 61- Cloud in a glass. Lets observe how a cloud is made. | Small groups | | water, ice, |
| | Follow the instructions on the screen. | | | metal dish. |



| Week/Lesson 7 | TAPS Assessment Opp | oortunity | 1 | J |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------------|------------|
| | Children to draw their cloud in their jar- labelling the different equipment used. Children can use the cloze procedure sentence STEM to write what they can see by looking closely. Take pictures for the floor book of children looking closely into the glass. I have observed that the (cloud) was formed when the (water vapour) cooled down and started to stick to (dirt, ice or salt). I observed a (add name of cloud from viewer) in the sky. EXT- children to draw the cloud they observed and label it. Slide 63- Recap on LO, WS and SE. Recap on knowledge, WS and SE on unit title page. Ensure this is now complete. Slides 64-77 Unit Quiz and answers Slides 77-84 Answers | Children to complete independently. | Children self- reflect. | resources. |
| | -Place ice into metal dish -Pour a small amount of warm water into the bottom of the glass. -Wait until the dish is really gold. Then place it on top of the glass. -Watch the inside carefully. You should see a 'cloud' form near the top of the glass. In the real world, clouds form when warm, moist air, like that in your glass, is cooled (your ice). When it is cooled it condenses into tiny water droplets, which appear as clouds. Slide 62- I can make careful observations. | | Use WS assessment on sheets when marking. | Lesson 6 |