

	Autumn Term			
SUBJECT: Science	Topic: Animals Including Humans	Year: 1	TERM: This is a 14 week unit (12 lessons including 2 assessment opportunities)	
	<ul> <li>NC Objectives:</li> <li>Pupils should be taught to: <ul> <li>I can identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals</li> <li>I can identify and name a variety of common animals that are carnivores, herbivores and omnivores.</li> <li>I can describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets)</li> <li>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.</li> </ul> </li> </ul>			
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		
		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,					



	<ul> <li>toes. These labels can be provided so they can stick on if they have trouble copying from the board or TA scribe.</li> <li>Place a completed version on the board and play Simon Says to ensure all children repeat the parts of the body.</li> <li>Slide 8- Play parts of the body from bbc.co.uk. (Link on the slide).</li> <li>https://www.bbc.co.uk/bitesize/topics/z9yycdm/articles/zqhbr82</li> <li>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.</li> <li>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.</li> <li>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?</li> <li>Slide 10- Let's apply our learning- Play Simon Says where children have to point to different parts of the body.</li> <li>Teacher/TA to look for any children who are hesitating.</li> <li>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.</li> <li>Take a picture of children's model and use the LO and WS assessment with picture in children's books.</li> <li>Slide 11- Children self-reflect on the LO using the unit title page, colour face and tick the WS and SE covered.</li> </ul>	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)
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?					
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-	
	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	<ul> <li>Slide 53- Share LO, WS and SE with the children.</li> <li>Slide 54- Children to guess what this zoomed in image is- ask them to look carefully at the features.</li> <li>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.</li> <li>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)</li> <li>Slide 56- Sort teddies into categories of what they might eat. (Pre assessment point)</li> <li>Take picture for floor books.</li> <li>Slide 57- Watch this BBC Clip. What types of food do animals eat? - KS1 Science - BBC Bitesize</li> <li>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.</li> <li>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.</li> <li>Venn diagram- introduce overlap for Omnivore.</li> </ul>	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.		
	<ul> <li>Pupils should be taught to:</li> <li>I can distinguish between an object and the material from which it is made.</li> <li>I can identify and name a variety of everyday materials including wood, plastic, glass, metal, water and rock.</li> <li>I can describe the simple properties of a variety of everyday materials.</li> <li>I can compare and group together a variety of everyday materials on the basis of their simple properties.</li> </ul>				



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.	<ul> <li>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.</li> <li>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.</li> <li>Children to add questions on post it notes. Display throughout the topic and put on 'what we know' section once answered.</li> <li>Links to science capital with adding in scientists and jobs.</li> </ul>	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
	<ul> <li>Slide 7- Share children the animation and the focus/problem of the session.</li> <li>Slide 8- Read to children. This puts the problem into context using Tim Peake.</li> <li>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.</li> <li>Type of materials e.g.</li> <li>Metal- aluminium foil, nuts, bolts, screws, coins, wire, paper clips, metal bottle tops, keys etc</li> <li>Wood- wooden lolly sticks, skewers, cocktail sticks, pegs, twigs, tree bark, wooden spoons, small pieces of wood.</li> <li>Plastic- Plastic bags, cling film, bubble wrap, plastic cutlery, plastic packaging and bags, Lego or Duplo, bottle tops, pipe.</li> <li>Paper- writing paper, sugar paper, crepe paper, news paper, tissue paper, tracing paper, paper art straws, coloured sticky notes.</li> <li>Fabric- wood, fur, leather, suede, voile, netting, denim and cotton.</li> <li>Extension- can children find one item each for at least 2 other categories?</li> <li>Slide 10- Children to draw and label at least 2 things from the sorted debris. This can include items from around the classroom.</li> </ul>	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		



	<ul> <li>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.</li> <li>Slide 20- Children to watch this clip to reinforce objects made of multiple materials.</li> <li>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.</li> <li>Slide 22- Lets reflect. Ask children the questions on the slide for children to reflect on the learning of the session.</li> <li>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</li> </ul>	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,
( <b>222</b> )	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.	<ul> <li>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).</li> <li>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.</li> <li>Slide 51- WS Focus- Interpreting results. Children to use this writing frame to complete their interpretation of results.</li> <li>Slide 52- children to self-reflect using smiley faces on unit title page. Tick the WS and SE covered.</li> </ul>	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.	<ul> <li>Slide 53/54- Let's recap. Explore these questions with the children.</li> <li>Recap on the learning so far making reference to the previous tests.</li> <li>Slide 55- Share LO, WS and SE for the session.</li> <li>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.</li> <li>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.</li> </ul>	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



	<ul> <li>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.</li> <li>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.</li> <li>Slide 17- Shelters- share with children some different designs to give them inspiration. What shape will they make it?</li> <li>Think about the shape of your shelter and the materials of each part. Design your shelter on your sheet.</li> <li>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.</li> <li>Children do not need to complete the evaluation yet. This will be after the test or next lesson if you do not have time.</li> <li>Slide 19- Now test your shelter. Now spray your shelter with water. Is Incy still dry?</li> <li>Slide 20- I can evaluate my shelter. Children to use the STEM sentences to support this. Children complete the bottom of their worksheet.</li> <li>Slide 21- Recap the LO, WS and SE for the lesson, children to</li> </ul>	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,
	[			
<b>neriod of time</b> . 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.		
	<ul> <li>Pupils should be taught to:</li> <li>To identify and describe the basic structure of a variety of common flowering</li> <li>To identify and name a variety of common wild and garden plants including de</li> <li>WS Objectives:</li> </ul>		-		



STRAND:	Pupils sho	ould be taught to:			
Biology	<ul> <li>Ol</li> <li>Pe</li> <li>Id</li> </ul>	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.			
<ul> <li>the flower/blossom.</li> <li>Can point out trees which lost their leaves and those who keep th Can point to and name parts of a plant.</li> <li>Can use simple charts to sort. Can use photos to talk about how parts to sort.</li> </ul>		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)			



<ul> <li>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)</li> <li>5. Plants start growing more leaves- they get bigger and stem gets thicker and stronger- stand up straight with arms up and fingers outstretched.</li> <li>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.</li> <li>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.</li> <li>Slide 24- Children to plant one seed using damp cotton wool and the other in soil.</li> <li>Soil- fill to top of container, place thumb 2cm into soil, place in seed and cover.</li> <li>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.</li> <li>Share the is link to show the growth of the runner bean <u>Runner bean plants growing - KS1 Science - BBC Bitesize</u></li> <li>Share the Growing bean time lapse with children to show how their bean should grow.</li> <li>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.</li> </ul>	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	
	<ul> <li>Children need to look carefully at their plant (relate back to</li> </ul>	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.
	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		
<ul> <li>As</li> <li>Ob</li> <li>Pe</li> <li>Ide</li> <li>Us</li> </ul>	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	<b>cators:</b> 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: <ul> <li>I can observe changes across four seasons.</li> <li>I can observe and describe weather associated with the seasons and how day leng</li> <li>WS Objectives:</li> <li>Pupils should be taught to:</li> <li>Asking simple questions and recognising that they can be answered in different w</li> <li>Observing closely, using simple equipment</li> <li>Performing simple tests</li> <li>Identifying and classifying</li> <li>Using their observations and ideas to suggest answers to questions</li> <li>Gathering and recording data to help in answering questions.</li> </ul> <li>Key Indicators:         <ul> <li>Can name four seasons and identify when in the year they occur.</li> <li>Can observe and describe weather in different seasons.</li> <li>Can describe days being longer in summer and shorter in winter.</li> <li>Present data in tables charts and compare seasons.</li> </ul> </li> <li>Whole Class Teaching including key questions</li> <li>Recording of outcomes (Differentiar)</li>	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.	<ul> <li>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?</li> <li>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.</li> <li>2- Migrating birds- many birds including nightingales, cuckoos, swifts and swallows fly south to warmer climates for winter</li> <li>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.</li> <li>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.</li> </ul>	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.	



	<ul> <li>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)</li> <li>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.</li> <li>Slide 24- Lets recap. Ask children the questions on the slides, can children look for patterns?</li> <li>Slide 25- Recap on LO, WS and SE- children to use unit title page to reflect on their learning.</li> </ul>		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 	<ul> <li>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.</li> <li>Slide 27- Share LO, WS and SE for the lesson.</li> <li>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?</li> <li>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)</li> <li>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)</li> <li>Slide 30- Let's grow our own crystals. Follow the instructions on the screen.</li> </ul>	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	



	<ul> <li>(NOTE- You may decide you only have time to make either crystals or snow)</li> <li>Slide 32- WS Focus- I can explain what winter feels like?</li> <li>Discuss winter as a class and what it feels like. How is it different to autumn, summer and spring?</li> <li>What words would they use to describe winter? Recap back to the brainstorm at the beginning of the lesson</li> <li>Children to complete their own brain storm with words or phrases to describe winter. Children may also add drawings or labels.</li> <li>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.</li> </ul>	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.			
<ul> <li>Slide 37- Spring- What do you think of when you hear the word spring? Chn talk to their partner and feedback.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>Slide 40- EXTENSION LESSON OR ALTERNATIVE LESSON EXT or alternative lesson- This can be done in addition to the spring walk or instead of.</li> </ul>	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.			<b>D</b> 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.
	<ul> <li>-Place ice into metal dish</li> <li>-Pour a small amount of warm water into the bottom of the glass.</li> <li>-Wait until the dish is really gold. Then place it on top of the glass.</li> <li>-Watch the inside carefully. You should see a 'cloud' form near the top of the glass.</li> <li>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.</li> <li>Slide 62- I can make careful observations.</li> </ul>		Use WS assessment on sheets when marking.	Lesson 6