# Year 2 – Autumn 1 and 2 Topic: Roots, Shoots, Buckets and Boots

Activities	Intended Outcomes	Key Vocabulary and Questions
Growing plants	Plants-:	Trees - deciduous, evergreen, ash,
Ongoing task throughout the year – Keeping an allotment or some	• To be able to observe and describe how	birch, beech, rowan, common lime, oak,
growing areas.	seeds and bulbs grow into mature plants.	sweet chestnut, horse chestnut, apple,
It is highly recommended that throughout the year the children		willow, sycamore, fir, pine , holly, etc
maintain an allotment/growing area. This will help to reinforce the	• To be able to use the local environment	
learning they will gain from the more focussed tasks, as well as provide	throughout the year to observe how	Wild flowering plants - cleavers,
a meaningful link to why it is important for scientists and farmers to	different plants grow. (non statutory)	coltsfoot, daisy, dandelion, garlic
know the conditions that seeds and plants require in order to grow.		mustard, mallow, mugwort, plantain,
	Living things and their habitats-:	red clover, self heal, shepherd's purse,
Recording	• To be able to identify and name a	sorrel, spear thistle, white campion,
The children could keep a large book in which they can stick drawings	variety of plants in their	white deadnettle and yarrow.
and photos of their allotment and other plant areas throughout the	habitats.	
year. Children will become more familiar with plant names if they are		Garden plants – crocus, daffodil,
able to work with a range across the year.		bluebells, etc
	Working Scientifically-:	
Seeds	<ul> <li>To be able to observe closely using</li> </ul>	Parts of plants – roots, branch, trunk,
Observing - What are different seeds like?	simple equipment. (Hand lenses)	stalk, leaf, flower, petal, seeds, bulbs
Children use sight and touch to observe their seeds. Encourage children		and twigs
to look at seeds carefully with a hand lens or microscope/viewer.	<ul> <li>To be able to use simple features to</li> </ul>	
	compare living things and, with help	Need of plants – water, light, heat,
Sorting - How many ways can we sort seeds?	decide how to sort and group them.	temperature
Provide children with a range of different seeds (many different types	(non-statutory).	
can be found in bird seed). Ask them to find different criteria for sorting		
them – e.g. colour, shape, size and texture.		
Provide the children with a 'seed size chart'. This you can make yourself;		
simply draw around 6 or so different sized seeds. Shade in these		
drawings. The children can then try placing these seeds on this chart;		
trying to find the drawing that has the closest size to that seed.		Assessment Opportunities

The children could draw some of their seeds in their books. They could group the seeds together according to one of their criteria. They could add any descriptive words. COLLECT ACORNS and CONKERS IN AUTUMN		Plants/Living things and their habitats.
Planting bulbs in different areasPlants:Comparative test - What do bulbs need so that can grow healthily?To be seedNote-: Key Stage 1 children do not need to conduct a fair test or predict what they think will happen. However, clear 'unfair' examples during testing are a good start to using 'measures' in science and relating back to the question will enable children to use their ideas to make a plan. The children should be encouraged to share their ideas about what they think the bulbs and seeds will need, as well as how they could go about finding out what the seeds/bulbs need.Working ScieNOTE-; Seeds and bulbs need water to grow but most do not need light; seeds and bulbs have a store of food inside them.• To caRecording – Discuss the question above with the children; capture their ideas in the class book or on learning wall.• To 	e able to observe and describe how is and bulbs grow into mature plants. Ind out and describe how plants need er, light and a suitable temperature row and stay healthy. Entifically-: be able to recognise that questions an be answered in a range of ways. To be able to perform a simple test. be able to observe and record with e accuracy, the growth of a variety of nts as they change over time from a seed or a bulb. (non-statutory) be able to set up a comparative test how that plants need light and water to stay healthy. (non- statutory) be able to gather and record data to o in answering questions. (use a ruler measure in cm once bulbs begin to grow)	Resources         • Whole class book         Bird seed containing a variety of seeds,         • Whiteboard viewer Microscope/Hand lenses,         • Home-made 'seed size chart'         • Home-made 'seed size chart'         • Five easy bulbs to grow: Narcissus- 'Tête-à-Tête' Tulipa- 'Queen of Night' Scilla siberica(Siberian squill) - 'Spring Beauty' Fritillaria meleagris (fritillaries) Crocus vernus -'Pickwick' -Flower pots

to stick in more photos taken of the same plant at different times in the	
year. Each time new photos are stuck in, include speech bubbles with	
comments that the children have made. Remember, as the bulbs begin	
to sprout, to record some length measurements alongside each of the	
photos.	

# Year 1 – Autumn 1 and 2 continued Topic: Happily Ever After

Activities	Intended Outcomes	Key Vocabulary and Questions
Grass Heads (growing seeds)	<u>Plants-:</u>	Trees - deciduous, evergreen, ash,
Simple test – My tights are covered with seeds from outside. How could	<ul> <li>To be able to observe and describe how</li> </ul>	birch, beech, rowan, common lime, oak,
we find out if they will grow?	seeds grow into mature plants.	sweet chestnut, horse chestnut, apple,
Hook – Video clip from www.bbc.co.uk/learningzone/clips/ - 'Growing		willow, sycamore, fir, pine , holly, etc
plants' and 'Seeds'	Working Scientifically-:	
Observe some different grass seeds using a microscope/viewer/hand		Wild flowering plants - cleavers,
lenses. How could we find out if they will grow? The children must	<ul> <li>To be able to gather and record data to</li> </ul>	coltsfoot, daisy, dandelion, garlic
decide what conditions they think the seeds need in order to grow. Make	help in answering a question.	mustard, mallow, mugwort, plantain,
grass heads by using a small length of tights. They can decide where to	<ul> <li>To be able to observe closely, using</li> </ul>	red clover, self heal, shepherd's purse,
place the pot and when to water the seeds.	simple equipment (hand lens)	sorrel, spear thistle, white campion,
	<ul> <li>To be able to gather and record data to</li> </ul>	white deadnettle and yarrow.
Recording	help in answering questions.	
The children can draw each of their seeds They can draw how they are		Garden plants – crocus, daffodil,
trying to grow the seeds and can make a note of where/why/how they		bluebells, etc.
plan to try and grow their seeds.		
As time passes, they can keep a diary showing changes.		Parts of plants – roots, branch, trunk,
		stalk, leaf, flower, petal, seeds, builds
<u>Aliai gerden</u>	Plants-:	and twigs
<u>Wini garden</u>	To be able to observe and describe how	Need of plants, water light heat
Investigation over time – Do seeds need water so that they can grow?	seeds grow into mature plants.	tomporature
Ack the children to discuss how they could find out the answer to this		Grow germinate, reproduce
Ask the children to discuss now they could find out the answer to this	I o find out and describe how plants need	Grow, germinate, reproduce
question.	water, light and a suitable temperature to grow	
Hook - Mystery seeds Provide the children with a small amount of seeds	and stay healthy.	
Ensure that there are pairs of each type of seed. The children will need	Monthing Coloratifically	
to ensure that one of the pair is placed in a container with soil and is	working Scientifically-:	
watered whereas the other one of the pair is in soil but receives no	• To be able to gather and record data to	
water. The same with light This can be done as part of the mini garden	IO be able to gather and record data to	
project in re-cycled food containers.		

Recording					• To	o be able to observe closely, using	Assessment Opportunities
Once again, the children can maintain a table over time in which they can draw (maybe including measurements later on) the growth of their				hich they	simple eq	uipment (hand lens)	Linked to end of unit on Insight -: Plants
seed. The children could record 'germinate' when they see their plant				heir plant	ru	uler, cm(non-statutory)	
begin to grow from th	le seed		·	·			
Testing if temperature         Investigation over time         that they can grow?         Show children 4 plant         'A', 'B', 'C' and 'D'.         Using some white pail         leaf joins a stem and the         leaf joins. Measure the         to decide where to plashould have a different         the children have dece         temperature in these         Recording         The children can draw         and the temperature         They can then be provide the plants outside         Letter       Where it on         on       is         plant       Image: State in the second is         C       Image: State in the second is         D       Image: State in the second is	e affects plant gi ie – What type o s of the same sp nt make two ma the next point fu e length betwee ace the pots. Exp nt temperature. ided upon. Mod places with a th v a map showing in each of these vided with the ta e over a period o Temperature	rowth (BES) of temperat pecies each rks on each orther up the rate two wo plain that e Take the po- el how to me ermometer where the locations. able below, of time.	T DONE IN S ure do plan in its own f n of the plan e stem whe white marks ach of the p neasure the r. plants have which they Date: Length	SUMMER) ts need so lowerpot; hts; where a ere another s. Ask them blaces laces that e been left r can Date: Length	Plants-: • T ne te Working S • To he pr • To ar th	To find out and describe how plants eed water, light and a suitable emperature to grow and stay healthy. Scientifically-: to be able to gather and record data to elp in answering a question. (fill in a re-prepared table) to be able to use simple measurements and equipment to gather data- nermometer-c modelled. Ruler-cm. (non-statutory)	Resources• tights, soil, re-cycled yogurt pots or plastic cups.Plant pots, Fast growing seeds: white mustard, rocket, flax, mung beans or radishes.You can use dried beans or peas from the supermarket but make sure you soak them in cold water the night before you want the children to use them.4 plants (potted Basil works well) white paint, thermometer, ruler

Testing the needs of plants (for growth and to stay healthy-light)	Plants-		
Investigation over time – Do plants need light so that they can grow?	•	To find out and describe how plants	
Children could suggest what they could do to find the answer to this	need v	vater, light and a suitable temperature to	
question.	grow a	nd stay healthy.	
Some might choose to place a plant in the cupboard and one on the	-		Potted plants, ruler, camera, iPad,
windowsill. Whereas others might choose to cover just one with an	Worki	ng Scientifically-:	opaque bags
opaque bag.			
The children might also help to make a decision as to which part of the	•	To be able to gather and record data to	
plant will be measured. It would also be worth taking photos of each of	help in	answering a question	
the plants (possible with a ruler standing next to them) so that over	•	To be able to use simple measurements-	
time children can see the changes in height and colour.	ruler, o	cm(non-statutory)	
6 6	,	· · · · · · · · · · · · · · · · · · ·	
To reinforce this learning, you could cover several leaves on different			
trees with opaque bags and see what happens to those leaves over			
time.			
Secondary sources			
Children can watch videos to find out how the plant uses leaves to			
make it food. http://www.bbc.co.uk/nature/life/Plant#p00lx6cl (be			
selective on the parts you choose)			
Phototropism - All plants carry out small movements in turning their			
leaves to face the sun, opening flowers and bending towards the light.			
A few days before this lesson place a plant (e.g. potted Basil) that you			
have been growing near the window. Ask the children a couple of times			
each day to take a photo of the plant from the same point. By the time			
of this lesson the plant should have turned itself towards the light. This			
is what is known as a phototropic response.			
Ask the children 'Do plants move on their own?' Ask them to try and			
explain what has happened to the plant by the window by referring to			
the photos that have been taken.			
•			
COLLECT ACORNS, BEECH MASTS AND CONKERS FOR GERMINATING			
Growing trees from seeds	Plants	:	
Investigation over time – Can we grow our own trees?	•	To be able to observe and describe how	
Using tree seeds (e.g. beech masts, acorns and horse chestnuts) devise		seeds grow into mature plants.	
an investigation to watch their growth over time. Large seeds can be			

placed in their own pot, whilst 3 or 4 small seeds can be placed in another pot. Once they are covered in soil the whole pot can be wrapped in a polythene bag until the shoots begin to show.	<ul> <li>Working scientifically-:</li> <li>To be able to gather and record data to help in answering a question.</li> <li>To use their observations and ideas to suggest answers to questions.</li> </ul>	Tree seeds , plant pots, soil
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# Year 2 – Spring 1 continued into Spring 2 Topic: London's Burning

Activities	Intended Outcomes	Key Vocabulary and Questions
ActivitiesBeing Scientists!Hook – The laboratory!Just like in Year 1, in order to get the children engaged in this area of science, try to create a laboratory within your classroom. The children might then begin to associate a 'laboratory' to a way of finding out about materials.A 'Careful, scientists at work' sign could be placed on the door. On entering the 'laboratory' for the first time the children could be faced with tables on which you have placed a range of scientific equipment. A digital microscope/viewer could be showing something interesting on the white board.You could inform children that throughout their lessons different people will be presenting them with different challenged to solve. They have been chosen as they are well known as careful and thorough scientists, who have the skills and knowledge to find the answers.This introduction lesson should help to remind the children about what	Intended Outcomes Recap- Material knowledge from Year 1	Key Vocabulary and Questions Types of materials: wood, plastic, glass, metal, water, rock, brick, fabric, sand, paper, flour, butter, milk, soil Properties of materials: hard/soft, stretchy/not stretchy, shiny/dull, rough/smooth, bendy/not bendy, transparent/not transparent, sticky/not sticky Verbs associated with materials: crumble, squash, bend, stretch, twist Senses: touch, see, hear, smell and taste
they learnt about materials in Year 1. Video - http://www.bbc.co.uk/learningzone/clips/materials-and-their-		
uses/2160.html		Assessment Opportunities
particular materials		everyday Materials.
Game – Silly spinners Make two types of spinners. On one there are drawings and labels of different materials – e.g. wood, plastic, metal, glass. On the other are drawings and labels of objects. Spin each of the spinners. Read out what each of them lands on. So you might end up with 'plastic' and 'playground'. Children can talk about what they think about a 'plastic	<ul> <li><u>Uses of everyday Materials-;</u></li> <li>To be able to identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.</li> </ul>	

		-
playground'. Which of its properties will make it suited to its role and	To be able to identify and discuss the	Resources
which of them would not?	uses of different everyday materials so	
	that they become familiar with how some	Digital microscope/viewer
Recording – the children can choose some of their favourite	materials are used for more than one	Home-made spinners; on one
combinations. Each time they can record the object, the material and	thing or different materials are used for	there are drawings and labels of
what they think about the combination.	the same thing. (non-statutory)	different materials – e.g. wood, plastic,
		metal, glass. On the other are drawings
		and labels of objects
What do you want to know?		<ul> <li>Posters showing the different</li> </ul>
As a class gather children' questions about what they want to know		types of scientific enquiry
about materials. These can be recorded on the white board or on the		
Learning Wall.		
How are we going to find out the answers to our questions? (Whole	Working Scientifically-;	
<u>school symbols)</u>	• To be able to ask simple questions and	
Being a detective	recognise that they can be answered in	
This game is designed to enable the children to first recognise that	different ways.	
there are a range of ways we can find out things in science, and then	• To be able to use their observations and	
secondly for them to choose the most appropriate method for a	ideas to suggest answers to questions.	
particular question.		
Begin by sharing with children the ways in which we can find things out		
in science. Show the whole school symbols <mark>(TBC</mark> )		
1. Survey – count the number of things		
2. Do a test - find out what happens to something when we		
change something about it		
3. Classifying – put things into groups		
4. Investigation over time – watch or measure something over		
time		
5. Secondary source – use a book or internet		
Each of these different types of enquiry could be displayed on posters		
at the front of the room. Call out one of the children's questions. With		
help, in a group, they can decide which type of enquiry/enquiries would		
be best for finding out the answer. When asked, one member from		
each group can place sticker on the poster showing the enquiry that		
they have chosen.		

Best material- suitability for purpose NOTE- other test can be performed to test suitability for purpose BUT		
N.C PoS and Working Scientifically Learning outcomes including		
equipment use and measuring must be met by activity.		
Simple test– Which material is best for the bottom of children's school shoes? Hook – The mystery box! Begin the lesson with a box wrapped in brown paper and addressed to you class. Open the box and pull out a pair of children's trainers. Then, pull out a letter. This letter could be from an annoyed customer who has bought a pair of trainers for their child, but they are just not good enough! Allow children an opportunity to discuss the desired properties for a material that was to be used to make the bottom of children's school shoes. They might choose; it is difficult for it to rub off on other surfaces, it is tough, it is bouncy, it is waterproof, it grips, etc. You could choose to test a range of their questions.	<ul> <li>Uses of everyday Materials-;</li> <li>To be able to identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.</li> </ul>	A mystery box, containing a pair of children's trainers and wrapped in brown paper
Testing materials for 'bounce'		
Simple test – How well do different materials bounce?	Uses of everyday Materials-:	
Ask the children to discuss how they could test how well different	• To be able to identify and compare the	A ruler, paper, wool (3 colours) or chalk
materials bounce. Provide the children with balls of the same size but	suitability of a variety of everyday materials,	Balls made from different
made from different materials. Can they help you decide what to	including wood, metal, plastic, glass, brick, rock,	materials: rubber, plastic, sponge,
measure. Work together to compose a table. (See below)	paper and cardboard for particular uses.	polystyrene, etc.
You could use non-standard units of measurement by using a long		
sheet of paper taped on the wall or chalk marks. On the paper could be	Working scientifically-:	
stuck different colours of wool of different lengths as a guide or marks		
on the wall. If the children are able, use standard units with a ruler in	• To be able to gather and record data to	
cm, m.	help in answering a question (fill in table that	
	they have had support to create as a class))	
	To be able to use simple measurements	
Recording.	and equipment to gather data. Ruler-cm, m.	
ine children can record in a table the material being tested and the	(non-statutory)	
colour of the wool/height it bounced up to.		

Material	Colour of wool/height it bounced to	Colour of wool/height it bounced to		
They could be encour slip – 'I would recomr because <u>Wood</u> Survey – what are the Take the children for many things are made why wood was chose	aged to complete this sci nend that you use for e uses of wood? a walk in and out of the s e form wood. The children n in each of the cases.	entists' recommendation your school shoes chool. Discover how n could suggest reasons		
Recording The children could dra explain why wood wa	aw each of the objects ma s chosen as the material	ade from wood and for these objects.		
Testing wood for prog Simple tests Hook – An email from asking for the assistan test the properties of wood is good at, so th A carousel of tests co could visit each one in 1. Strength – The child fences need to streng children place a small Using a hair dryer, the the wood panel. They	perties an owner of a timber yan nee of the scientists. The of wood so that they can le hat he can then use this in uld be set up around the n order to test out a differ dren might have discover of th in order to stand up age sheet of wood between ey could find out what ha	rd. This email could be children/scientists must t the owner know what n his advertising posters. classroom. The children rent property of wood: ed that objects like gainst strong winds. The two small piles of books. ppens when fast air hits types of materials.	<ul> <li><u>Uses of everyday Materials-;</u> <ul> <li>To be able to identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.</li> </ul> </li> <li><u>Working Scientifically-:</u> <ul> <li>To be able to use their observations and ideas to suggest answers to questions.</li> <li>To be able to perform simple tests.</li> </ul> </li> </ul>	Variety of woods

2. How easy it is to put nails into it – The children could carefully try	To observe closely using simple	
pressing drawing pins into the wood. Again, this can be repeated on	equipment.	
other materials.	• To be able to gather and record data to	
3. Weight. The children could attach an elastic band around a piece of	help in answering questions.	
wood of a particular size and try picking it up with only finger and		
thumb. Once again, compare to other materials of similar size.		
4. How hard it is. The children place some wood on the hoor. On this wood they can stand up a cardboard tube. They can then drop different		
small heavy objects made from metal down the tube. Fach time, they		
can look at the wood to see it any marks has been made. They can then		
try the same test on other materials.		
5. Using secondary sources. This could also be part of the carousel.		
Children could have a range of picture of objects made from wood. For		
each picture they will need to suggest why wood was chosen, if another		
material would have been as good, and which materials would not have		
worked.		
Recording		
The children could design an advertising poster for the owner of the		
timber yard; explaining the uses for wood.		
Plastic uses	Lleas of even day materials :	
Survey – what are the uses of plastic?	Oses of everyday materials	
Again, take the children around the classroom, school and outside to	• To be able to identify and compare the	
find out all the objects that are made from plastic. The children can	including wood metal plastic glass	
take it in turns to pretend that they were the designer of the object.	brick rock paper and cardboard.	
These children must explain why they chose plastic for that object.		
Recording		
Photos of the objects can be placed in the class book or on the Learning		
wall. Children's explanations can be recorded on though bubbles and		
stuck around the pictures.		
<u>Lesting Plastic for flexibility (to squirt liquid!)</u>	Working Scientifically-:	Plastic containers that could
children can be set the challenge to find the most flevible plastic to be	<ul> <li>To be able to use their observations and</li> </ul>	squiit water – e.g. saldu tream bottles,
children can be set the challenge to find the most nexible plastic to be	ideas to suggest answers to questions.	Return buttles, washing-up liquiu

used as liquid holders. The factory might have received complaints from older people that some of the containers were not flexible enough. Simple test – How flexible are plastics? Show children a range of plastic bottles that have been used for storing different liquids. Good ones to use include: salad cream bottles, ketchup bottles, washing-up liquid bottles, shower gel bottles and water bottles. The children can try to work out how to test how flexible different plastics are. They could decide to test them by placing water inside each of them, taking them out on to the playground, and then seeing high far they squirt water. They can measure the distance using metre rulers. Each time, they can describe how difficult it was to squirt the water. Recording	<ul> <li>To be able to perform simple tests.</li> <li>To observe closely using simple equipment.</li> <li>To be able to gather and record data to help in answering questions (With support, design a simple table to present results.)</li> <li>To be able to use simple measurements and equipment to gather data-rulers, cm, m.(non-statutory)</li> </ul>	bottles, shower gel bottles and water bottles • Metre rulers
can they design a simple table (with some support) to present their results. They could draw each of the containers and record next to each one the length the water travelled and how difficult it was to squeeze the container.		
Fabric- Stretchiness	Uses of everyday materials-:	
Simple test – Which tights are the stretchiest?	• To be able to identify and compare the	Different types of tights
Old Lady From 54' by Andrew Collett (in 'Always Fat Your Bogies') The	uses of a variety of everyday materials, including	Home-made colour charts for
children could be trying to find out the best tights for the little old lady	cardboard.	measuring the length of stretch on
to keep in her handbag in case she is attacked by the spider.		paper.
The children could help to plan this investigation. This could be assisted		Masses (weights from cooking
by the teacher deliberately doing it wrong – e.g. the teacher can add $100g$ to another	Working Crientifically	Ruler cm m
Although at Key Stage 1 there is no expectation for the children to plan	• To be able to use their observations and	
fair tests, they will realise by the teaching deliberately doing it wrong	ideas to suggest answers to questions	
that some things need to remain the same to make the test fair.	• To be able to perform simple tests.	
The children can measure how far the tights stretch by placing paper on	To observe closely using simple	
the wall for marking or chalks. Prepare this resource for the children –	equipment.	
ensure that you have at least three colour bands (e.g. red, blue and		

green) – and ensure that you have already tested the bands/tights – so that the least stretchy and the most stretchy definitely stretch alongside different colours. The children can then use standard measures with a ruler-cm, m. Recording The children could be encouraged to think about a range of ways or recording what happened. You could then model these methods on the board. It might be then appropriate for children to choose a suitable method. Can they help to prepare a simple table. The children could write a short letter to the Little Old Lady from 54. They could explain which tights are the stretchiest and thus best to	<ul> <li>To be able to gather and record data to help in answering questions (With support, design a simple table to present results.)</li> <li>To be able to use simple measurements and equipment to gather data-rulers, m.(non-statutory)</li> </ul>	
keep in her handbag! <u>Modelling and sharing results for transparency</u> Simple test – Which material is best at letting light through? Hook – Begin with evidence Inform the children that they will be shown some evidence from a scientist who is quite well known for making mistakes. He was trying to find out which type of material would be best for a new windscreen in a racing car. They must decide whether his test was any good, as well how much they agree/disagree with what he says that he has found out. Method –'I was trying to find out which material was best at letting light pass through. I wanted to test plastic, aluminium foil, glass, paper and wood. I placed each material on the table and used different torches to shine light at them. The glass let through so much light that I decided to use two layers of glass instead of one. My results below show that plastic let through the most light.	<u>Uses of everyday materials-:</u> • To be able to identify and compare the uses of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard.	<ul> <li>Torches</li> <li>Different types of materials</li> </ul>

Type of material	Amount of light that passed	Working Scientifically-	
Glass	Some	To be able to use their observations and	
Plastic		ideas to suggest answers to questions.	
Aluminium foil	Some	• To be able to perform simple tests.	
Wood	None	To observe closely using simple	
Paper	Lots	equipment.	
Once the children have picked hole can decide how they will find Health and Safety - Remind childrer each oth	s in the scientist's investigation they d the answer to the question. n that they cannot shine torches into er's eyes.	<ul> <li>To be able to gather and record data to help in answering questions</li> <li>To be able to use simple measurements and equipment to gather data. (non-statutory)</li> </ul>	
Reco The children could reco They can then discuss what they fo As a class, you can compose a	rding d their results in a table. und out and how they found it out. n email back to the 'scientist'.		
			<ul> <li>Toy cars (check that they will travel in straight lines)</li> <li>Ramps (with either different surfaces, or detachable surfaces).</li> <li>Long plain cheap paper</li> <li>Sticky dots</li> <li>Cubes</li> <li>Rulers</li> </ul>
<u>Changing the shape of materials</u> Exploring – How well can we chan Begin by discussing with children means. Establish that a solid has a c unless a force i Home-made goo– Using only salt, p children can make their own stree	ge the shapes of some solid objects in what they think the term 'solid' efinite shape that remains the same is acting upon it. Ilain flour, water and cooking oil the tochy material. Ask them to make a	<ul> <li><u>Uses of everyday materials-:</u></li> <li>To be able to find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.</li> </ul>	

variety of sha Colourful slim water at a ti Ac Ask children t Tack, elas met Children con ratings) acco Recording	apes e.g. by twi me – Put 10 table ime until there dd 2 teaspoons to try to do the tic bands, foam al/wooden spoo mpare the mate ording to how be	sting, stretchin materials. espoons of co is a thick paste food colouring same with oth sponges, soft on, and to des erials and rate endy, squashy be twisted, et	ng, bending, c rnflour in a bo e. Stir with a v g and stir. Squ ner objects e.g rubber ball, p cribe what ha (e.g. with sta , able to be st c.	or squashing the owl. Add 50ml of vooden spoon/ eeze. g. Plasticene, Blu paper, fabric, oppens. rs or their own retched, able to	Worki • •	ing Scientifically-: To be able to use their observations and ideas to suggest answers to questions. To be able to perform simple tests. To observe closely using simple equipment. To be able to gather and record data to help in answering questions (With support, decide how to rate materials)	A variety of objects that can change when twisted, squashed, stretched and bent. • Home-made goo ingredients – salt, plain flour and cooking oil. • Colourful slime ingredients – cornflour and food colouring
Material	Ability to be squashed	Ability to be bent	Ability to be twisted	Ability to be stretched			
Problem-solv The childre house for a would like to windows, ro particular m e.g	ing - Applying k en could be chal toy company. In know why the pof, etc. Some o laterial, but labe . the walls migh	nowledge to r lenged to des n order to sell children choo f the model m elled to show y t be card, but	nake a produc ign and to ma the house, th se the materia ight have to k what it would labelled 'brick	t ke a dolls/toy e toy company als for the walls, be made with a be in real life – <', etc.	U <u>ses c</u>	<ul> <li><u>of everyday materials-:</u></li> <li>To be able to identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.</li> </ul>	

# Year 2 – Spring 2 Topic: Fire and Fantasy

Activities	Intended Outcomes	Key Vocabulary and Questions
<u>Healthy Eating</u> Classifying – Which foods make a healthy diet? Show children an example of a lunchbox. Discuss with children why some food when eaten in too large amounts is bad for our health – e.g. sugar, salts and fats. Share information from secondary sources such as books and internet. With the children, classify the foods in the lunchbox: green for foods we can eat quite a lot of, amber for those we can eat quite often, and red for foods we can eat as treats. Provide children with lunchboxes with different contents. They can classify each one using the 'green, amber, red system'. They can decide what advice they would give to the owners of each of the lunchboxes.	<ul> <li><u>Animals including Humans-:</u> <ul> <li>Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene</li> <li>To be able to ask questions about what humans need to stay healthy (non-statutory).</li> <li><u>Working Scientifically-:</u></li> <li>To be able to use simple secondary sources to find answers (non-statutory)</li> </ul> </li> </ul>	<ul> <li>Life processes – growth, nutrition (feeding), respiration (breathing is part of this)</li> <li>Hygiene – clean, wash, germs</li> <li>Foods – healthy, grow, strong, energy</li> </ul>
Recording Children could draw an unhealthy and a healthy lunchbox.		Assessment Opportunities Part of unit on Insight-: Animals, including humans.
Survey – How often do we wash ourselves? Why do we wash our hands etc. Children could find out from each other. Be sensitive here to not let it get personal! Do children have preferences for a shower, a bath? Recording Children could tally how many children perform particular cleaning activities each day: clean teeth, wash hands, wash hair. Or create a tally for bath/shower preference. <u>Food hygiene</u> Keeping food clean. Discuss the importance food hygiene with the children.	<ul> <li><u>Animals including Humans-:</u> <ul> <li>Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.</li> <li>To be able to ask questions about what humans need to stay healthy (non- statutory).</li> </ul> </li> <li><u>Working Scientifically-:</u> <ul> <li>To be able to record simple data- tally (non statutory)</li> </ul> </li> </ul>	Resources Books about keeping healthy, food, • Lunchboxes/pictures of lunchboxes containing different types and amounts of food.

Recording		
Children could draw a poster showing how someone could look after		
their food: place in fridge/freezer, wash all container and cutlery, wash		
hands, etc.		
<u>A healthy lifestyle</u>		
When discussing the needs of humans, it is best to consider the bigger		
picture; i.e. What makes a healthy lifestyle? The children's ideas might		
be stimulated by the following video:		
http://www.bbc.co.uk/learningzone/clips/a-healthy-		
lifestyle/2274.htmlImportance of exercise		
Discuss with children why it is important to exercise. They might		
identify: to maintain a healthy weight, to be flexible, to have strong		
muscles, to make sure organs like the heart and lungs are in good		
snape, and to make yourself feel good.		
video - http://www.bbc.co.uk/learningzone/clips/the-importance-of-		
exercise/2268.ntml		
Fyercise	Animals including Humans-:	
Explore - What happens when you exercise?	Describe the importance for humans of	
The children could investigate what happens to their bodies when they	exercise eating the right amounts of different	
try different forms of exercise. Suggest ideas for a simple test and	types of food, and hygiene.	
devise a simple table for results. After exercise, they could touch their	• To be able to ask guestions about what	
foreheads to see whether they are warm, or feel their chests to find out	humans need to stay healthy (non- statutory).	
whether their hearts are pumping faster and their lungs are working		
harder.		
Investigate – Which exercise makes you puff the most?	Working Scientifically-:	
Children could decide three different exercises to try. After doing each	• To be able to gather and record data to	
exercise a partner can hold a sheet of paper in front of the child and	help in answering questions (Devise a	
count the number of breaths (the paper moving upwards). Discuss with	simple table).	
the children which exercise made their bodies work hardest.		
	• To be able to perform a simple test.	
Recording		
The children could show on a table the different exercises and the		
number of breaths taken after each of them.		

# Year 2 – Summer 1 Topic: Curious Creatures and Seaside Holidays

Activities	Intended Outcomes	Key Vocabulary and Questions
Habitats /Basic needs of animals	Living Things and their Habitats-:	Living things and their habitats-:
Deep thinking time – Which habitats do you know of on our amazing planet	To identify that most living things live in	Classification - Carnivores,
Earth?	habitats to which they are suited and	herbivores, omnivores
Try to begin by establishing with children what an amazing planet it is that	describe how different habitats provide for	Stages of growth of many
we live on. Make sure you model the wonder of the natural world and	the basic needs of different kinds of animals	insects – egg, larva, pupa, adult
encourage the children to be fascinated by the variety of the organisms that	and plants, and how they depend on each	Stages of life –baby, toddler,
surround us. Try also not to focus solely on animals and plants from other	other.	child, teenager, adult
countries. We are so lucky to live in a country full of amazing organisms.		Life processes – growth,
Some amazing animals and plants can be found near our school.	• To be able to identify and name a variety of	nutrition (feeding), respiration
The following video will allow your class to discuss the variety of habitats	plants and animals in their habitats,	(breathing is part of this)
that exist in the world and the different animals and plants that live there:	including micro-habitats.	
http://www.bbc.co.uk/learningzone/clips/an-introduction-to-different-		Animals, including Humans-:
habitats/2315.html	Working Scientifically-:	Classification - Birds, fish,
	<ul> <li>To be able to ask simple questions and</li> </ul>	amphibians, reptiles, mammals
What do you want to know about habitats?	recognise that they can be answered in	and invertebrates
As a class gather children' questions about what they want to know about	different ways.	Classification - Carnivores,
plants and animals in the local habitats and others around the world. These		herbivores, omnivores
could be recorded on the white board or on the Learning Wall.		Stages of growth of many
		insects – egg, larva, pupa, adult
Being a detective		Names of some invertebrates –
This game is designed to enable the children to first recognise that there are		ladybirds, butterflies,
a range of ways we can find out things in science, and then secondly for		dragonflies, etc.
them to choose the most appropriate method for a particular question		Names of some amphibians –
Begin by sharing with children the ways in which we can find things out in		smooth newt, common frog,
science. Whole School symbols TBC. You could show these on the white		toad
board alongside a symbol or picture that they would recognise as that		Stages of life –baby, toddler,
method again in the future:		child, teenager, adult
1. Survey – count the number of things		• Life processes – growth,
2. Do a test - find out what happens to something when we change		nutrition (feeding), respiration
something about it		(breathing is part of this)

3.	Classifying – put things into groups		
4.	Investigation over time – watch or measure something over time		
5.	Secondary source – use a book or internet		
6.	Pattern-seeking – find a relationship between things		
Each of	these different types of enquiry will be displayed on posters at the		
front of	the room. Call out one of the children's questions. With help, in a		
group,	they can decide which type of enquiry/enquiries would be best for		Assessment Opportunities
finding	out the answer. When asked, one member from each group can		End of unit on Insight-; Animals,
place st	icker on the poster showing the enquiry that they have chosen.		including Humans and Living
Habitat	<u>s</u>		things and their habitats.
Identify	ing – What are different habitats like?		
Link to	Meerkat Mail. Look at Sunny's Habitat.		
_			
Researd	h – What lives in other habitats?		
There a	re many videos online which will enable the children to view habitats		Resources
that the	ey might not otherwise be able to visit:		Posters showing the
http://v	www.bbc.co.uk/learningzone/clips/a-river-habitat-and-the-living-		different types of scientific
things-i	t-supports/13975.html		enquiry
			enquiry
Record	ng		
The chi	dren could find out a particular habitat and explain why particular		
animals	live there.		
Food Cl	nains		
Observ	ation enquiry – What are animals eating?	Living Things and their habitats-:	
Indoors	– Set up a terrarium in which you can keep a small amount of	• To be able to describe how animals obtain	
inverte	brates throughout a day. Carefully try to select leaves from some of	their food from plants and other animals,	
the pla	nts found near where you found them. Allow children to use	using the idea of a simple food chain, and	
microso	opes and hand lenses to study the animals carefully. Their body parts	identify and name different sources of	
might g	ive clues as to what they eat.	food.	<ul> <li>Camera/iPad</li> </ul>
		Working Scientifically-:	
Second	ary resources research – Provide children with photos and some	<ul> <li>To be able to observe using a</li> </ul>	
simple	texts on animals so that they can work out what these animals feed	microscope/hand lens	
upon.		<ul> <li>To be able to use simple features to</li> </ul>	
		compare living things, and with help decide	
		how to group them	

Outdoors observations – It is rather difficult to find animals actually eating, but there might be evidence left behind. Recording The children could draw some of their animals and the food that it eats. Food-chain headbands Make some headbands from strips of card that have been stapled together. Make a slip at the front in which a picture of an organism can be placed. For a small group of children (around 6) provide them each with a headband and each with an organism card (turned over so they can't see what animal or plant is on it). Ensure that each pile of organism pictures can exist in the same food-chain. Each child must place their picture card in their headbands without looking at the picture. After they have put on their headbands, they must try to organise themselves in a food-chain without telling each what they are. To extend this, children can decide what other animals could have eaten some of the animals in their food chain. Recording	To be able, with guidance, to begin to notice patterns and relationships	
Children could draw some of their food-chains. Each time they must ensure that the arrow shows the direction in which the energy is being passed.		
<u>Animals have offspring</u> NOTE- children are not expected to understand how reproduction occurs. Hook – Creating a wildlife workshop	<ul> <li><u>Animals including Humans</u>-:</li> <li>To notice that animals, including humans</li> </ul>	
You could inform the children that they are going to be learning about how animals change, what animals need to survive and stay healthy. At the end of the term they will be visited by an 'audience'; this could be parents or	have offspring that grow into adults. Working Scientifically-:	
other children. During this visit they must be able to share what they have learnt – maybe by showing pictures, drawing, photos, videos, etc.	<ul> <li>To be able to use observations to suggest answers to questions.</li> </ul>	
Observing and recording the lifecycle of animals This area of science could be made quite dry to children. With a little more pre-planning and a few resources it could be made much more exciting for them.	<ul> <li>To be able to record data (flow diagram).</li> </ul>	
Videos – Animals and their offspring		

When looking at the photos, ask the children to work out the order of the	
animal's life cycle.	
http://www.bbc.co.uk/learningzone/clips/african-animals-and-their-	
voung/12646.html	
http://www.bbc.co.uk/learningzone/clips/what-are-baby-animals-	
like/12670.html	
-,	
Ordering the stages of animals' development	
How can you work out the order of the animals' life cycles?	
Provide children with pictures of different animals at various points in their	
development. Children will need to put together the pictures of the same	
animal. They will then order each of the animals' pictures from young to	
adult. It would be more challenging to include a range of different types of	
lifecycles:	
1. A chicken - http://learncreatelove.com/?p=8013	
2. A frog -	
http://www.topmarks.co.uk/spring/FrogLifeCycle.aspx?age=ks2	
3. A newt	
4. A dragonfly	
5. A butterfly	
Investigating animals over time	
This is an opportunity for the children to actually see the different stages of	
some animals' life cycles. A couple of possibilities are described below:	
Ladybirds Meet minikeests life avales are tee long for children te observe all avents	
from agg to adult but ladubirds are an excention. They have a life avela of 4	
to E wooks	
Try to find ladybirds yourself in early May	
1 Start breeding ladybirds in early May. The seves are not easy to tell	
anart so try to canture two that are nairing or keen in a container until you	
see mating taking nlace	
2 After mating has occurred remove the male as he may eat eggs that	
the female lays. Keep the female in a transparent container and provide her	
with greenfly (aphids)	

one batch of eggs. By doing this, she might lay eggs in different containers, so there is more for children to observe. 4. Once the larvae have hatched from the eggs, be sure to provide plenty of greenfly or they may eat each other. 5. Each larva will moult 3 times and then turm into a pupa which should not be disturbed. After a further 4-6 days an adult will emerge Eggs of minibeasts (Year 1 often raise butterfiles) Egg hunt – Spring to late summer is a good time to try and find the eggs of minibeasts. Places to look include: soil, damp crevices, under bark, under branches and stones, the under surface of leaves, and where leaves join the stem. Observation children can record outside: • Are the eggs attached to anything? • Are the eggs subtached to anything? • Are they found on their own or in groups? • Where in the wildlife area were they found? (They could make a map) Making observations of invertebrate eggs indoors As well as ladybird eggs, you could use: snails, slugs, cabbage butterfly and water snails. Keep eggs in a container on the material they were found on outside (unless it is likely to decay). Keep the temperature cool and oven. Tadpoles of frogs (EYFS generally raise tadpoles as part of their UW curriculum) http://www.cleapss.org.uk/attachments/article/0/G206.pdf?Primary/Resou rccs/Suides/ The website above provides all the information you will require for making sure that you look after tadpoles in careful manner. Birds Video. The following is a video of chaffinch chick being fed and growing - http://www.bbc.co.uk/earningzone/Clips/the-growth-and-development-of- excheficit-hone-nearration/72.11.html	3. Remove the female to another container once she has produced	
so there is more for children to observe: 4. Once the larvae have hatched from the eggs, be sure to provide plenty of greenfly or they may eat each other. 5. Each larva will moult 3 times and then turn into a pupa which should not be disturbed. After a further 4-6 days an adult will emerge Eggs of minibeasts (Year 1 often raise butterflies) Egg hunt - Spring to late summer is a good time to try and find the eggs of minibeasts. Places to look indude: soil, damp crevices, under branches and stones, the under surface of leaves, and where leaves join the stem. Observation children can record outside: • Are the eggs attached to anything? • Where in the wildlife area were they found? (They could make a map) Making observations of invertebrate eggs indoors As well as ladybrid eggs, you could use: snails, slugs, cabbage butterfly and water snails. Keep eggs in a container on the material they were found on outside (unless it is likely to decay). Keep the temperature cool and even. Tadpoles of frogs (EVFS generally raise tadpoles as part of their UW curriculum) http://www.deapss.org.uk/attachments/article/0/G206.pdf?Primary/Resou rece/Guides/ The website above provides all the information you will require for making sure that you look after tadpoles in careful manner. Birds Video. The following is a video of chaffinch chick being fed and growing - http://www.bbc.co.uk/learningzone/clips/the-growth-and-development-of- a-chaffinch-near-raition/722.	one batch of eggs. By doing this, she might lay eggs in different containers.	
<ul> <li>4. Once the larvae have hatched from the eggs, be sure to provide plenty of greenfly or they may eat each other.</li> <li>5. Each larva will moult 3 times and then turn into a pupa which should not be disturbed. After a further 4-5 days an adult will emerge</li> <li>Eggs of minibeasts (Year 1 often raise butterflies)</li> <li>Eggs hunt - Spring to late summer is a good time to try and find the eggs of minibeasts. Places to look include: soil, damp crevices, under bark, under branches and stones, the under surface of leaves, and where leaves join the stem.</li> <li>Observation children can record outside:</li> <li>Are the eggs attached to anything?</li> <li>Are the eggs attached to anything?</li> <li>Are they found on their own or in groups?</li> <li>Where in the wildlife area were they found? (They could make a map)</li> <li>Making observations of invertebrate eggs indoors</li> <li>As well as ladybird eggs, you could use: snalls, slugs, cabbage butterfly and water snalls.</li> <li>Keep eggs in a container on the material they were found on outside (unless it is likely to decay). Keep the temperature cool and even.</li> <li>Tadpoles of frogs (EYFS generally raise tadpoles as part of their UW curriculum)</li> <li>http://www.cleapss.org.uk/attachments/article/0/G206.pdf?Primary/Resou reces/Guides/</li> <li>The website above provides all the information you will require for making sure that you look after tadpoles in careful manner.</li> <li>Birds</li> <li>Video. The following is a video of chaffinch chick being fed and growing - http://www.bbc.co.uk/learningzone/clips/the-growth-and-development-of-ex-chaffinch-nearning/07251.html</li> </ul>	so there is more for children to observe.	
pienty of greenfly or they may eat each other. 5. Each larva will moult 3 times and then turn into a pupa which should not be disturbed. After a further 4-6 days an adult will emerge Eggs of minibeasts (Year 1 often raise butterflies) Egg hunt – Spring to late summer is a good time to try and find the eggs of minibeasts. Places to look include: soil, damp crevices, under branches and stones, the under surface of leaves, and where leaves join the stem. Observation children can record outside: • Are the eggs attached to anything? • Are they found on their own or in groups? • Are they found on their own or in groups? • Are they found on their own or in groups? • Are they found on their own or in groups? • Are they found on their own or in groups? • Where in the wildlife area were they found? (They could make a map) Making observations of invertebrate eggs indoors As well as ladybrid eggs, you could use: snalls, slugs, cabbage butterfly and water snalls. Keep eggs in a container on the material they were found on outside (unless it is likely to decay). Keep the temperature cool and even. Tadpoles of frogs (EYFS generally raise tadpoles as part of their UW curriculum) http://www.deapss.org.uk/attachments/article/0/G206.pdf?Primary/Resou rces/Guides/ The website above provides all the information you will require for making sure that you look after tadpoles in carful manner. Birds Video. The following is a video of chaffinch chick being fed and growing - http://www.bc.cou.k/learningzone_c/lips/the-growth-and-development-of- achaffinch-ne-arartion_721.btm]	4. Once the larvae have hatched from the eggs, be sure to provide	
<ul> <li>So Each larva will moult 3 times and then turn into a pupa which should not be disturbed. After a further 4-6 days an adult will emerge</li> <li>Eggs of minibeasts (Year 1 often raise butterflies)</li> <li>Eggs hunt - Spring to late summer is a good time to try and find the eggs of minibeasts. Places to look include: soil, damp crevices, under bark, under branches and stones, the under surface of leaves, and where leaves join the stem.</li> <li>Observation children can record outside: <ul> <li>Are the eggs attached to anything?</li> <li>Are they eggs in acceled to anything?</li> <li>Are they found on their own or in groups?</li> <li>Where in the willdle area were they found? (They could make a map)</li> </ul> </li> <li>Making observations of invertebrate eggs indoors <ul> <li>As well as ladybird eggs, you could use: snails, slugs, cabbage butterfly and water snails.</li> <li>Keep eggs in a container on the material they were found on outside (unless it is likely to decay). Keep the temperature cool and even.</li> </ul> </li> <li>Tadpoles of frogs (EYFS generally raise tadpoles as part of their UW curriculum)</li> <li>http://www.cleapss.org.uk/attachments/article/0/G206.pdf?Primary/Resou rces/Guides/</li> <li>The website above provides all the information you will require for making sure that you look after tadpoles of chaffinch chick being fed and growing - http://www.bbc.co.uk/learningzone/clips/the-growth-and-development-of-a-chaffinch-on-enaration/752.bt tml</li> </ul>	plenty of greenfly or they may eat each other	
Eggs of minibeasts (Year 1 often raise butterflies) Eggs of minibeasts (Year 1 often raise butterflies) Egg hunt – Spring to late summer is a good time to try and find the eggs of minibeasts. Places to look include: soil, damp crevices, under bark, under branches and stones, the under surface of leaves, and where leaves join the stem. Observation children can record outside: • Are the eggs attached to anything? • Are they gasy to see? • Are they found on their own or in groups? • Where in the wildlife area were they found? (They could make a map) Making observations of invertebrate eggs indoors As well as ladybird eggs, you could use: snails, slugs, cabbage butterfly and water snails. Keep eggs in a container on the material they were found on outside (unless it is likely to decay). Keep the temperature cool and even. Tadpoles of frogs (EYFS generally raise tadpoles as part of their UW curriculum) http://www.cleapss.org.uk/attachments/article/0/G206.pdf?Primary/Resou rces/Guides/ The website above provides all the information you will require for making sure that you look after tadpoles in careful manner. Birds Video. The following is a video of chaffinch chick being fed and growing - http://www.bbc.co.uk/learningzone/clips/the-growth-and-development-of- a-chaffinch-ne-narration/752.bt.tml	5 Fach larva will moult 3 times and then turn into a nuna which should	
Eggs of minibeasts (Year 1 often raise butterflies) Egg hunt – Spring to late summer is a good time to try and find the eggs of minibeasts. Places to look include: soil, damp crevices, under bark, under branches and stones, the under surface of leaves, and where leaves join the stem. Observation children can record outside: • Are they eggs attached to anything? • Are they found on their own or in groups? • Where in the wildlife area were they found on their own or in groups? • Where in the wildlife area were they found on outside (unless it is likely to decay). Keep the temperature cool and even. Tadpoles of frogs (EYFS generally raise tadpoles as part of their UW curriculum) http://www.cleapss.org.uk/attachments/article/0/G206.pdf?Primary/Resou rces/Guides/ The website above provides all the information you will require for making sure that you look after tadpoles in careful manner. Birds Wideo. The following is a video of chaffinch chick being fed and growing - http://www.bbc.co.uk/learningzone/clips/the-growth-and-development-of- a-chaffinch-ne-narration/7521.html	not be disturbed. After a further 4-6 days an adult will emerge	
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A good idea is to install a webcam into a bird box. The children can then keep a diary to show how the changes that take place. Have these ready during the winter so that the birds can nest in them come spring time. Recording The children can keep their own diaries showing the development of the different animals over time. Signs for 'run-around' game: Living/dead/never been alive Living Things and their Habitats-: 'living', 'non-living', Survey – How many different living things can we find? • To be able to explore and compare the 'movement', 'growth', etc. The processes common to all living things are: movement, respiration, differences between things that are living, Pictures of organisms sensing, nutrition, excretion, reproduction and growth (MRS NERG). dead, and things that have never been alive. and non-living objects Take the children outside. Explain to them that they have the challenge to work out the things that living things can do that non-living things can't do. You will probably need to begin with talking about both plants and animals are things that children will need to look at. It might help them if you have put some laminated symbol, lolly stick, etc next to a range of things for them to visit in order to decide whether it is living or not. Recording The children could divide a page in half. Down one side they record nonliving things and down the other side living things. In addition, they could draw a stick man. Around the stick man can be drawn thought bubbles. Inside each bubble the children can write 'A living thing Game - Living things – 'run-around' Take the children into a large space. Ask a child to name one thing that all living things can do -e.g. 'move'. Divide the space into two parts; place a 'living' sign' in one half and 'non-living' in the other. Hold a sign up with 'move' written on it. Then, from a pile of upturned picture cards, choose a card and show it to the children. Using the idea that all living things 'move on their own', the children must stand in the half of the area that corresponds to the picture shown. Carry on with this activity, each time identifying another process of living things. Children will probably need a

little help with: reproduction, respiration (i.e. converting energy from food) and excretion (getting rid of waste products). Add a little challenge by showing images of things that occur outside but are not alive; rocks, shells (from animals that were once alive), wood (from plants that were once alive) and maybe even fossils.	

# Year 2 – Summer 2 Topic: Curious Creatures and Seaside Holidays

Activities	Intended Outcomes	Key Vocabulary and Questions
Plants and Animals in their habitats -incl micro habitats (under log, on	Living Things and their Habitats-:	Habitat, micro habitat
stony path, under bushes)	• To be able to identify and name a variety	Pond, meadow, log pile, woodland,
	of plants and animals in their habitats, including	river, lake, beach, cliff
Habitats- incl microhabitats	micro-habitats.	Organism – plant, animal
Discuss a range of habitats in the school ground that you would like the		Trees - deciduous, evergreen, ash,
children to study (these can include microhabitats).	Working Scientifically-:	birch, beech, rowan, common lime, oak,
Visit each of the habitats with the children. Ask them to describe each	<ul> <li>To be able to observe closely (hand</li> </ul>	sweet chestnut, horse chestnut, apple,
one by using their senses.	lenses)	willow, sycamore, fir, pine, holly, etc
Now tell them that they are going to pretend that they are special types		Wild flowering plants - cleavers,
of estate agents; ones that sell homes to invertebrates! The children		coltsfoot, daisy, dandelion, garlic
will need to visit a habitat and describe what it is like there: damp/dry,	Living Things and their Habitats-:	mustard, mallow, mugwort, plantain,
light/dark, warm/cold, etc .	<ul> <li>To be able to identify that most living</li> </ul>	red clover, self heal, shepherd's purse,
Do habitats change during a year? Discuss.	things live in habitats to which they are suited	sorrel, spear thistle, white campion,
	and describe how different habitats provide for	white deadnettle and yarrow.
Recording	the basic needs of different kinds of animals and	Garden plants – crocus, daffodil,
The children can draw each of the habitats and describe what it is like	plants, and how they depend on each other.	bluebells, etc
there. They could do this in the form of an advert at an estate agents.		Parts of plants – roots, branch, trunk,
Observation enquiry – Why would an animal live in that habitat?		stalk, leaf, flower, petal, seeds, bulbs
Drama - The amazing shrinking child - Tell the children that they have		and twigs
been shrunk to an animal that is the size of a pen lid. Take them outside		Invertebrates – snail, slug, woodlouse,
and look for animal life under a pile of logs. Now talk with the children		spider, beetle, fly, etc
about what these animals would need in order to survive. Hopefully		Pond animals – pond skater, water
you will identify ideas that relate to: air, heat, shelter, light, food and		slater, ramshorn snail, pond snail, leech,
safety from predators. Ask the children to be much fussier now about		common frog, smooth newt, etc
where they would live – i.e. which of the habitats would fulfil their		
requirements and which ones would not.		

Recording		Assessment Opportunities
Allow the children a chance to draw what their animal looks like. They can then describe how it is suited to surviving in the habitat in which they have placed it. You can take this further by asking the child what would happen to their animal if they placed it in a range of different habitats. Children could take their imaginary animal to another child's habitat and talk about how well their animal would survive.		Linked to end of unit on Insight-Living things and their habitats Opportunities to note those Working Scientifically
		Resources
<ul> <li><u>Whole Class Investigations and Experiments to use practical scientific</u> <u>methods, processes and skills</u> <ol> <li>Best material for carrying water- using knowledge from 'Uses of Everyday materials' and 'Working Scientifically'.</li> </ol> </li> <li>Children to investigate carrying water in a container- (bucket/flower pot) linked to Seaside Holidays Topic.</li> <li>There could be a hole in the bucket? Which material is best for blocking the hole?</li> <li>Hook – song – 'There's a hole in my bucket'. After singing the song together, a message could arrive. This could be a message from Henry, requesting urgent help in finding the best material to block the hole in his bucket.</li> </ul>	<ul> <li><u>Uses of everyday Materials-:</u> <ul> <li>To be able to identify and compare the suitability of a variety of everyday materials for particular uses</li> </ul> </li> <li><u>Working Scientifically-:</u> <ul> <li>To be able to raise and ask simple questions and recognise that they can be answered in different ways.</li> <li>To be able to carry out simple tests (child to suggest features to be compared).</li> <li>To be able to observe closely using simple measurements – I mI hours min</li> </ul> </li> </ul>	<ul> <li>Pots for collecting invertebrates in</li> <li>Paint brushes and spoons (for picking up invertebrates) <ul> <li>Hand lenses</li> <li>Home-made invertebrate</li> <li>identification</li> </ul> </li> <li>chartshttp://www.cleapss.org.uk/ <ul> <li>attachments/article/</li> <li>0/G206.pdf?Primary/</li> <li>Resources/Guides/</li> <li>http://www.cleapss.org.uk/</li> <li>attachments/article/0/</li> <li>L071.pdf?Primary/</li> <li>Resources/Guides/</li> </ul> </li> </ul>
How can we find out the answer to the question? Use whole school symbols (TBC) to discuss the best way. Show the children a container with a hole in the bottom (bucket/flower pot). Ask them to suggest materials that would be good at preventing water from leaking through the hole. Ask them also to think about how they could find out which is the best material for doing this. Plan and design a test. Children to suggest what could be compared/measured. In small groups, the children could find out which material plugs the hole the best. They could measure the amount of water that goes into the container, and then measure the amount of water that passes through the hole.	<ul> <li>simple measurements –I, ml, hours, min, sec.</li> <li>To observe closely using simple equipment-measuring vessels, digital timer.</li> <li>To be able to gather data to help answer the question.</li> <li>To be able to record data, with support and communicate their findings (try to suggest ways of recording data)</li> </ul>	<ul> <li>http://www.butterflyschool.org/ teacher/raising.html</li> <li>Pictures of various animals at many of their stages of development.</li> <li>A variety of resources for keeping the minibeast/s being studied healthy.</li> </ul>
non milling measure enter weet.		

Suggest ways to record data.		Sketches of life cycles of a range
Gather and record data.		of animals -http://www.kidzone.ws/
Present results and make conclusions (through talking) and link back to		animals/lifecycle.htm
original question.		
Send a message back to Henry, explaining which material is best at		
blocking the hole in his bucket. Henry could later reply with a thank		<ul> <li>Ladybirds (adults) available</li> </ul>
you.		from various suppliers (e.g.
		http://www.greengardener.co.uk/
2)Testing different surfaces for a bathing machine- Topic link- Seaside		product.asp?id pc=34&cat=75)
holidays and Bathing machines (DT design and make).	Uses of everyday Materials-:	
How easily do they roll down different surfaces.	• To be able to identify and compare the	Variety of materials for making
Testing surfaces-	uses of a variety of everyday materials, including	containers in which to keep the
Simple test– On which surface will the Bathing machine travel the	wood, metal, plastic, glass, brick, rock, paper and	minibeasts
furthest?	cardboard.	
Begin by allowing the children to explore toy cars on ramps. Children		Minibeast eggs
can explore what happens when: they push the car, change the height	Working Scientifically-:	
of the ramp, change the surface of the ramp, change the size of the car,	• To be able to use their observations and	
etc.	ideas to suggest answers to questions.	
	• To be able to perform simple tests.	<ul> <li>Containers with holes in the</li> </ul>
Hook – Osbourne House on the Isle of Wight is replacing the ramps for	• To observe closely using simple	bottom (e.g. a flower pot)
Queen Victoria's Bathing machine to travel down. The current ones do	equipment.	Materials for plugging holes in
not go far enough! Can the children find the 'best' surface for the	• To be able to gather and record data to	the flowerpot; Blu Tack, Plasticene, clay,
replacement ramps. The children could be encouraged to think about	help in answering questions (With support.	wax. straw. etc.
how they should perform the test; how high the ramp should be each	design a simple table to present results.)	Measuring jugs, digital timers
time, the type of machine to use, how many surfaces need to be tested.		
how many tests on each surface, how they will 'measure' the distance		
travelled and how they could show their results		Bathing machines made out of
		construction kits for testing nurnose
Measuring distance:		(not the children's creations)
The machines could travel along lengths of chean wallnaper		(not the children's creations)
napor and the distance travelled could be recorded with different		Pamps (with either different surfaces
paper, and the distance travelled could be recorded with different		or dotachable surfaces)
The children could measure in cm		lang plain charp paper
2. The children could medsure in cm.		Long plain cheap paper
Recording		Sticky dots
This is good opportunity to support the children with recording their		Kulers
results in a table. Report back to Osbourne House your findings.		