

Science Scheme of Work



	Year 1 Autum	n Term	
	AUTUMN 1 st Half	Autumn 2'	^{1d} Half
	Everyday Materials, Part 1 Pupils should be taught to: • distinguish between an object and the material from which it is made • identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock • describe the simple physical properties of a variety of everyday materials; compare and group together a variety of everyday materials because of their simple physical properties	Seasonal Changes (Autumn) Pupils should be taught to: • observe changes across the four seasons. • observe and describe weather associated with the seasons and how day length varies. Working Scientifically (WS):	 Animals including humans, Part 1 Pupils should be taught to: identify and name a variety of common animals including fish, amphibians, reptiles, birds, and mammals. identify and name a variety of common animals that are carnivores, herbivores and omnivores. Working Scientifically (WS):
Science (All NC subject content covered)	Working Scientifically (WS): During year 1, pupils should be taught to use the following practical scientific methods, processes, and skills through the teaching of the programme of study content: 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 gathering and recording data to help in answering questions.	practical scientific methods, processes, and skills through the	 During year 1, pupils should be taught to use the followin practical scientific methods, processes, and skills through the teaching of the programme of study content: 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 sugges answers to questions gathering and recording data to help in answering questions.
WS opportunities	Observing over time Image: Comparative & Fair Research Using Secondary Sources Image: Comparative & Fair Image: Comparative & Fair Image: Comparative & Fair How does our class vista change over time? What materials are the objects made from and why? Image: Comparative & Fair Image: Comparative & Fair	Observing over time	Pattern Seeking
Key questions / knowledge and understanding to be explained Key Knowledge and facts to be recalled	Children to draw simple labelled pictures for a range of objects, naming the material(s) in them. Some will be able to give simple reasons for the choice of material. At this stage, spellings may not be correct.	1. What I know now: Seasons Pictures	 What I know now: Draw three animals and label them. What makes them all an animal? What is similar? What makes them different? Identify any common misconceptions in this introductory lesson. As an extension, children can try to group animals drawn by themselves and friends and use the reasoning sheet below to identify what animals they would expect to see in certain habitats and why. This can









Children create a picture for each season – what can they write about each season. How are they similar/different? The Four Seasons



Children know and can spell the months for each of the four seasons:

💛 The Fou	r Seasons
Autumn	Winter
September	December
October	January
November	February
Spring	Summer
March	June
April	July
May	August

Children list and/or draw events that happen in each of the autumn months, **September, October, and November,** including the start of the school year, Halloween, Bonfire Night and add any relevant details of autumn to these images/lists.

 I can describe how the weather changes from summer to autumn; focus on autumn - I can describe day length in autumn.



Kids raking leaves.avi

https://www.bbc.co.uk/bitesize/articles/zbxh47h

Children watch a video(s) of leaves falling from trees and are shown the BBC weblink above that explains autumn changes. Children explain that this is a result of the shortening day – less sunlight and cooler temperatures mean that trees start to lose their leaves so that they are protected during winter and new buds can grow in spring.

Leaves change colour as the sunlight lessens because the trees absorb the remaining nutrients to store for food over winter.

Class choose one 'vista' in the school grounds (with a tree) to photograph each month and refer back to during each 'season's science learning – what is the same? What is different?



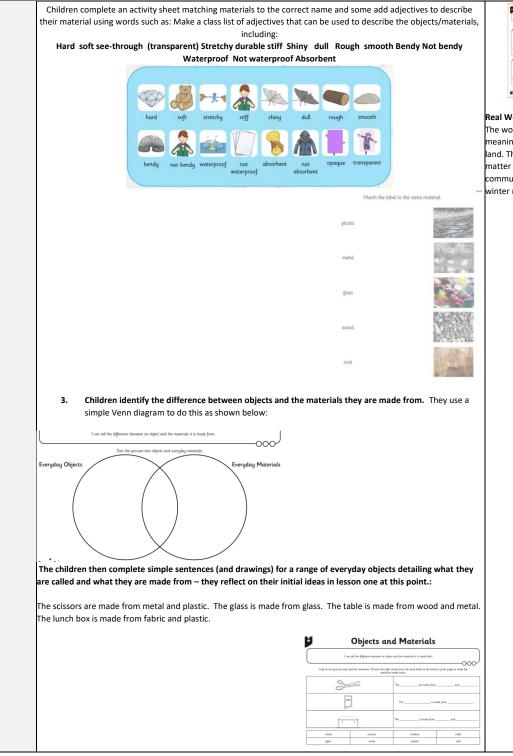
be supported by a walk around the school grounds and discussion on different habitats, including the local beach. Why are some animals found in both locations (birds, gulls) and some in one or the other (adders)?



2. Different types of animals

Children can name a selection of common animals in the different animal groups: They explain the differences using vocabulary related to the animal group, habitat, movement, and others. **For example**, children can explain that a dog and cat are both mammals because they give birth to live young, but are different for a variety of reasons, including size. They also know that dogs and cats are pets or domesticated animals that come from wild animals.





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Real World Context – Autumn Harvest

The word 'harvest' comes from the Old English word harvest meaning 'autumn', aptly the season for gathering the food of the land. This was a vital time of year when success was a genuine matter of life or death. A prosperous harvest ensured that a community would be fed throughout the potentially barren winter months.

To identify and name some comman animals.	
now a picture or write the name of each animal you se	a and others one is firs the she is a tend. Use
nimal Groups Key to help you to identify which group it	
Name: sheep	Name
where in a field	Where:
Group mammal	Group
Name:	Name:
Where:	Where:
Group:	Group:
Name	None
Where	Where:
Group:	Group:

Children can explain that all animals within a group are similar but not identical. They can reference this to each animal group, using the sheets below.



3. Carnivores, Herbivores and Omnivores Remember it!

Children can explain key differences between birds, mammals, amphibians, reptiles, and fish as learnt in the last session.

	Remember It 🛛 🗚	Ť				
Match the descri	Match the description the right group. Talk to you partner about which group you think each is.					
Amphibians	Birds have a beak, two legs, feathers and win	igs.				
Mammals	Fish live in water. They have scaly skin, fin help them swim and breathe through gills.	s to				
Birds	Mammals are animals that breathe air, grow hair or fur and feed on mother's milk as a baby.	,				
Fish	_Reptiles_breathe air. They have scales on their s	kin.				
Reptiles	Amphibians live in the water as babies and on lan as they grow older. They have smooth, slimy skin.					

Children know that all living things need to eat and that what animals eat is called their **diet.** Animal diets can be sorted into three groups: **Carnivore: Meat eaters**

 4. Children create a poster to describe the properties of one (or more) of the materials discussed in the unit so far (glass, wood, metal, etc.). Description If the use get avoid get av	2	Herbivore: Plant eaters Omnivore: Eat meat and plants Diets Animals can be sorted into three groups of dists
Wood • Plastic • Glass • Metal • Water • Rock • Brick • Paper • Fabrics • Elastic • Foil Properties: • Hard / soft • Stretchy / stiff • Shiny /dull • Rough	Seasons Summer • Autumn • Winter • Spring • Day • Daytime Weather: • Wind	fish, amphibians, reptiles, birds and mammals. • Senses – touch,
Vocabulary	• Rain • Snow • Hail • Sleet • Fag • Sun • Hot • Warm • cold	smell, vision, taste, hearing. • fur, spine, wings, scales, tail Omnivores - meat and plants (examples badger, human, bear, chicken). • Carnivores - meat eating (examples, dog, cat, lion, tiger, snake). • Herbivores - plant eating (examples, cows, horses,

	Year 1 Spring Term					
	Spring	1 st Half	Spring 2 nd Half			
Science	Seasonal changes (Winter) Pupils should be taught to: observe changes across the four seasons. observe and describe weather associated with the seasons and how day length varies. Working Scientifically (WS): During year 1, pupils should be taught to use the following practical scientific methods, processes, and skills through the teaching of the programme of study content: 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 gathering and recording data to help in answering questions.	Animals including humans, Part 2 Pupils should be taught to: describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds, and mammals, including pets) identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. Working Scientifically (WS): During year 1, pupils should be taught to use the following practical scientific methods, processes, and skills through the teaching of the programme of study content: 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.	Plants Pupils should be taught to: identify and name a variety of common wild and garden plants, including deciduous and evergreen trees identify and describe the basic structure of a variety of common flowering plants, including trees. Working Scientifically (WS): During year 1, pupils should be taught to use the following practical scientific methods, processes, and skills through the teaching of the programme of study content: asking simple questions and recognising that they can be answered in different ways observing closely, using simple equipment performing simple tests identifying and classifying 			
WS opportunities	Observing over time Wentflying & Grouping How does our class vista change over time?	Comparative & Fair Testing Secondary Sources	Observing over time Image: Classifying & Grouping How does my bean change over time? Which wild plant is most common? Pattern Seeking image: Classifying & Grouping			
Key questions / knowledge and understanding to be explained Key Knowledge and facts to be recalled	1. What I know now: Seasons Pictures Children recreate a picture for each season – what can they write about each season. How are they similar/different? What can they remember from their learning in Autumn 1? The Four Seasons Autumn Autumn Spring	 What I know now: Draw, label and compare human and dog/cat. Children draw a picture of a human and label the parts. Children draw a dog or cat and label the parts. Children explain the similarities and differences between the two. Can they remember any learning from Autumn 1? I can compare the body parts of different animals. 	1. What I know now: Draw and label a tree and flowering plant. Can you name any flowering plants? Children could be given art resources to 'make' their image:			



The Fou	r Seasons
Autumn	Winter
September	December
October	January
November	February
Spring	Summer
March	June
April	July
May	August

including the Christmas, New Year's Eve, Shrove

of winter to these images/lists.

Tuesday, Valentines' Day and add any relevant details

3. I can describe how the weather changes from autumn to winter; focus on winter

I can describe day length in winter.

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SnowScene1.mov

tal rese dess

 Spring
 Summer
 Children discuss the labelled diagram of a dog and then identify animals that have similar body structures, building on their first session in week 1. They may articulate that a cat and fox has four legs, the winter months, December, January, and February, difference because of size, shape, colour, etc...

Lizard long tail scaly skin spine

Teacher to emphasize this point by sharing an image of an animal that has similar characteristics but also clear differences, such as the lizard shown above.

https://www.bbc.co.uk/teach/class-clipsvideo/science-ks1-ks2-winter-weather-behaviourbritish-animals-plants/zbcg92p Children label two similar animals with a key difference as well, such as the lizard and dog shown. How do the different parts of each animal help them survive?

Children watch a video(s) of snow falling and are shown shift focus to animals that do not have four legs: the BBC weblink above that explains winter changes.

Children know that the day shortens, and temperatures decrease, meaning that some animals hibernate, and many find it hard to find food. Sometimes humans provide food for animals during the winter. Garden birds are given nuts and sheep are given straw. Ploughing the soil turns up worms and grubs for seagulls to eat. Many animals find food without the help of humans so must be ready for any opportunity.

Some animals **hibernate**: Hedgehogs, bats, and dormice

Some **migrate**: birds

Some animals **adapt** by growing more fur or finding different food sources – foxes, squirrels, rabbits, and hares.



Children know that **deciduous** trees lose their leaves, but **evergreen** trees do not.

Children can explain the temperature drop and how this can lead to frost and ice in winter months.



How does a bird's structure support how it lives? What can it do that a dog can't do, for example?



How is the frog's structure helpful to the way it lives?

Odd one out: Children discuss and identify the odd animal out, giving reasons for their choices: 2. I can describe how to plant a bean. I can suggest a question about plants and a way we could answer it.



What could we do with this equipment? What questions could we ask and answer using the equipment we have in class today? What could we find out?

Articulate that we want our beans to grow big and strong, so what do they need? Soil, water, sunlight (warmth).

Children plant their beans and write simple instructions for each stage:





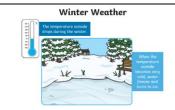
Working Scientifically: What will happen if...we take away the water, soil, or sunlight? Teacher to plant 3 beans with these elements removed. Children to predict what will happen to each and make comparison to their beans, which will have all required elements provided.

Children keep a weekly diary of their bean (and the ones planted by teacher) for the comparative investigation.

 WS: WEEKLY BEAN PLANT CHECK – OBSERVE, MEASURE AND DRAW PLANTS AT THIS MOMENT USING DIARY BOOKLET. I can identify and name common wild plants. I can gather information to answer a question.

A wild plant is one that grows by itself. Our beans are not wild plants, rear gather information to answer a question. Seed grows where it falls. It doesn't need to be planted. It doesn't need to be cared for as it grows. If a wild plant grows where it is not wanted, it might be called a weed.

Common Wild Plants – Children can name the plants below and articulate a feature(s) of the plant using real life experience.



Continue with Class Vista Photographs – discuss changes as we have moved into winter. Class choose one 'vista' in the school grounds (with a tree) to photograph each month and refer back to during each 'season's science learning – what is the same? What is different?

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Real World Context – Hibernation

Some animals must hibernate during winter to preserve energy and survive the cold months. They eat before winter arrives and store fat, which allows them to go into a deep sleep during winter. In the UK, hedgehogs, bats and dormice hibernate. Create a poster sharing this and explaining why they hibernate.



Animal Odd One Out



Animal Odd One Out



Animal Body parts and their uses:







You are on the outside of equation unimals bolism.
 They are sumd to help the equation unimals swin faster through the water.
 Some squatic animals have fins that are used to make them look more attractive to other equation nimals.





Do humans have gills? What do animals that live on land use to breathe?



<complex-block>

Working Scientifically: Which wild plant is most common in our school's grounds? Children conduct a wild plant search around the grounds and make a tally list of the number of times they spot each type. Teacher then models adding up the numbers of each child/group and identifies the most/least common wild plant in the school.

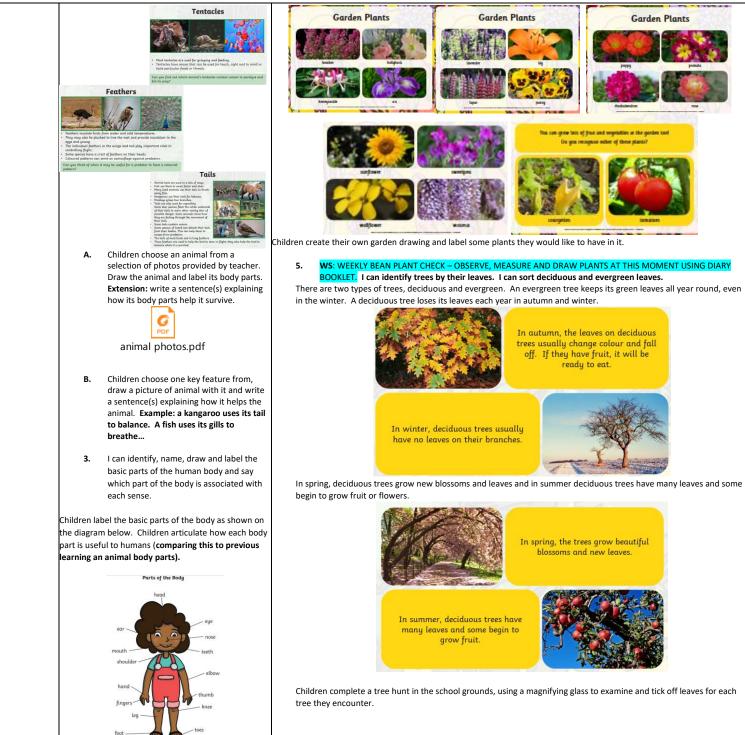


 WS: WEEKLY BEAN PLANT CHECK – OBSERVE, MEASURE AND DRAW PLANTS AT THIS MOMENT USING DIARY BOOKLET. I can identify and name some garden plants.

Gardens are places where people grow plants. Some people grow plants because they are nice to look at. Some people use their gardens for growing things to eat. You can plant your bean plant in a garden when you take it home. Eventually it will grow tasty beans!

Grass: Grass is a special kind of plant that looks good and is comfortable to walk on and sit on. Other garden plants:

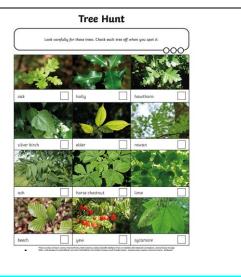






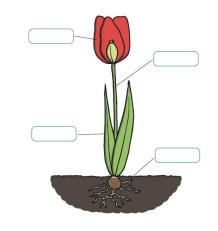
Children can use this labelled diagram to explain how the human body allows humans to explore the five senses shown below: For example, my eyes allow me to see. My nose helps me to smell. The skin allows me to feel touch...

sight	Your eyes let you see all the thing around you.
hearing	Your ears let you listen to all the things around you. Your brain is able to tell what different sounds are.
touch	Your skin gives you the sense of touch. You can tell if something is warm, cold, smooth or rough without even looking at it!
taste	Your sense of taste comes from your tongue. You can tell if something tastes bitter or sweet. You might have some tastes you like and some you don't.
smell	You smell using your nose. Your nose can tell if things smell nice or not nice.

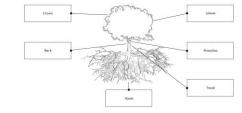


 WS: WEEKLY BEAN PLANT CHECK – OBSERVE, MEASURE AND DRAW PLANTS AT THIS MOMENT USING DIARY BOOKLET. I can label the parts of a plant. I can say the names of parts of trees.
 Children know and can label the roots, stem, leaves and flower on a simple plant diagram.

Parts of a Plant

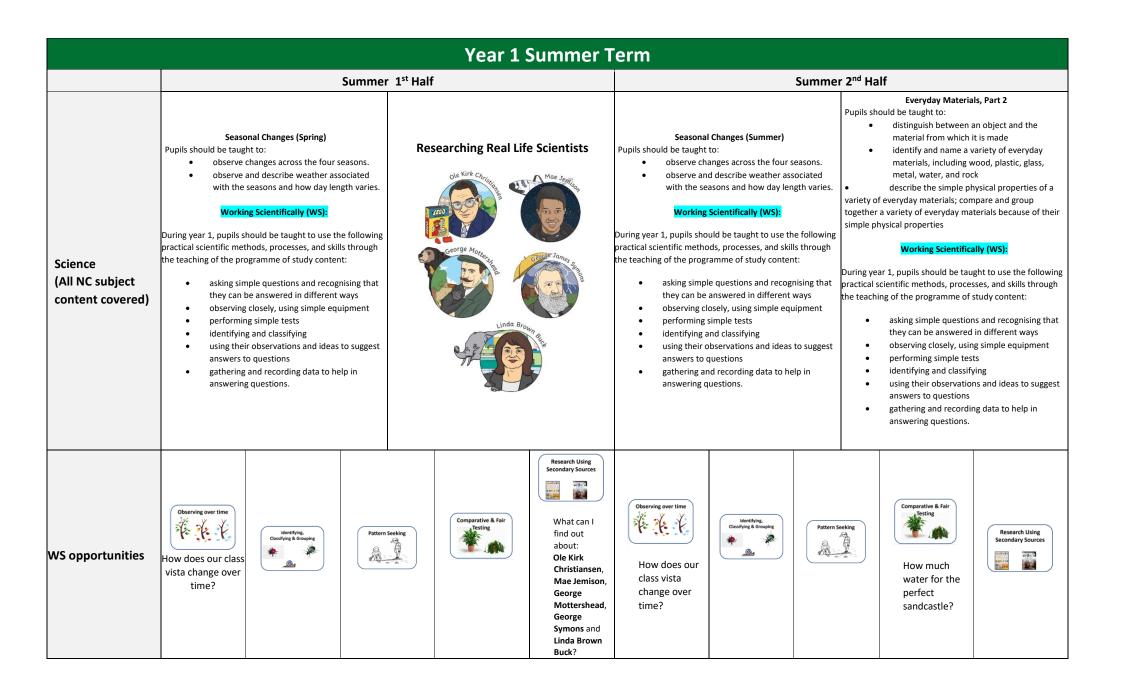


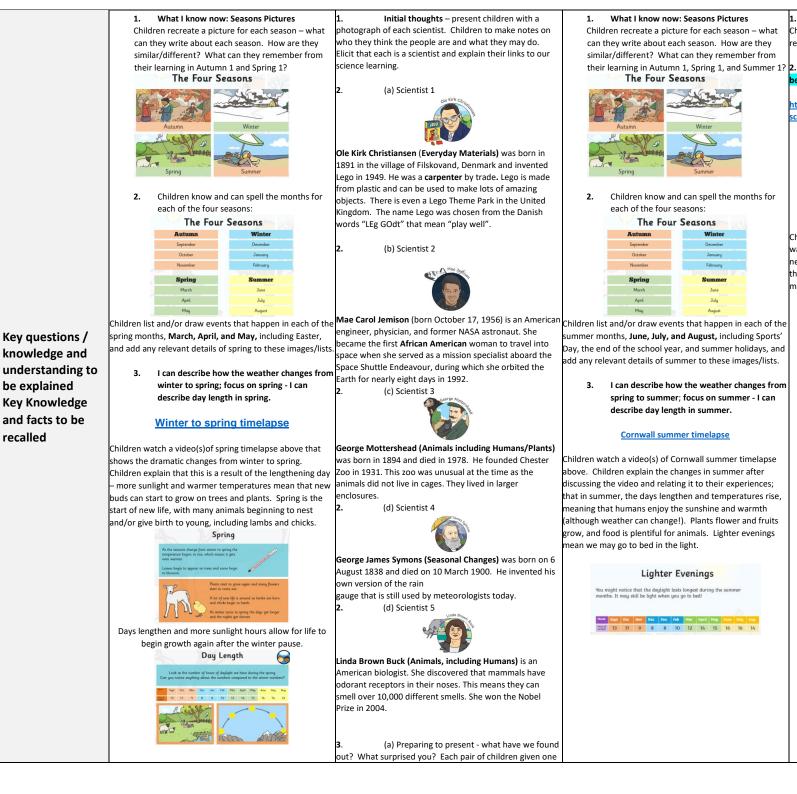
Children can label the parts of a tree:



7. WS: WEEKLY BEAN PLANT CHECK – FINAL CONCLUSION - OBSERVE, MEASURE AND DRAW PLANTS AT THIS MOMENT USING DIARY BOOKLET. I can talk about how my bean plant has grown. I can say what plants need to grow well and give reasons for my answers.

Vocabulary	Seasons Summer • Autumn • Winter • Spring • Day • Daytime Weather: • Wind • Rain • Snow • Hail • Sleet • Fog • Sun • Hot • Warm • cold	fish, amphibians, reptiles, birds and mammals. • Senses – touch, smell, vision, taste, hearing. • fur, spine, wings, scales, tail Omnivores – meat and plants (examples badger, human, bear, chicken). • Carnivores – meat eating (examples, dog, cat, lion, tiger, snake). • Herbivores – plant eating (examples, cows, horses, mice).	Wild plants • Garden plants • Deciduous • Evergreen • Root • Leaves • Bud • Blossoms • Stem • Petals • Trunk • Branches





1. What can I remember: Children to complete a simple mind-map of what they remember from studying materials in Autumn 2. 1? 2. WS – Beach visit. Children investigate the best mixture of sand and water to make a sandcastle. https://www.kiwico.com/blog/the-science-behind/the-science-behind/sandcastle-building Image: Complex State of Sand State

Children to work in small teams to investigate the best water to sand mixture for a sand-castle – children will need access to water, measuring jugs and buckets. Once they find the best consistency, challenge the children to make a sand castle village, town or city in their groups.

> WS – Which material makes the best tent? Children investigate a range of materials to see if they would make a good tent material. Identify need for material to be waterproof, but also lightweight and easy to manipulate.



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Image: Section 1 Image: Section 2 Image: Section 2		spring and how it effects animals and humans.			
Continue with Class Vista Photographs – discuss changes as we have moved spring to summer. Class choose one Vista" in the school grounds (with a tree) to photograph and the school ground (with a tree) to photograph and the school				lawnmower ice cream green leaves	
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Vocabulary Weather: • Wind • Rain • Snow • George Mottershead Wind • Rain • Snow • Hail • Sleet Rock • Brick • Paper • Fabrics •	Vocabulary				
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Warm • cold Linda Brown Buck soft • Stretchy / stiff • Shiny /dull		Warm • cold	Linda Brown Buck		soft • Stretchy / stiff • Shiny /dull

		• Rough / smooth • Bendy / not
		bendy•Waterproof / not waterproof•Absorbent / not
		absorbent