Autumn 1 Science - plants	
Knowledge I know	Skills I can Links back to I remember
<ul> <li>The names of some of the plants in our school grounds (including flowers and trees).</li> <li>A plant is a living thing that moves, respires, grows, reproduces etc.</li> <li>Plants need water, light and a suitable temperature to grow and stay healthy.</li> <li>Seeds and bulbs grow into plants.</li> <li>Pictograms and block diagrams can be used to present data clearly.</li> <li>Pictograms and block diagrams help to answers questions about totalling and comparing.</li> </ul>	<ul> <li>I can identify and name some of the plants in our school grounds (including flowers and trees)</li> <li>I can present results using a pictogram and/or block diagram charts with help (plants in school grounds)</li> <li>I can explain what makes a plant a living things</li> <li>I can talk about what a plants need to grow and stay health</li> <li>I can observe and describe changes over time (bean diary)</li> <li>Ask questions in a group</li> <li>Plan simply what to do, in a group</li> <li>Predict the outcome of an investigation in a group</li> <li>Use a table to display results (headings given by teacher).</li> </ul>
Vocabulary:	Images:
Bulb: a plant bud that begins to grow underground Seed: the small parts produced by plants from which new plants grow Observe: to look closely Plant: a living thing which include flowers, trees and vegetables Pictogram: a chart that uses pictures to represent data	Plant Needs

Pictogram: a chart that uses pictures to represent data Predict: make a guess about what might happen

Autumn 2 Science - materials		
Knowledge I know	Skills I can	Links back to I remember
<ul> <li>Most materials have never been alive</li> <li>Materials are what objects are made from e.g. fabric, wood, metal</li> <li>Materials have properties which make them suitable for different purposes</li> <li>Some materials are right for a purpose because of their properties e.g. a kettle is made of metal because it conducts heat and is waterproof</li> <li>Flexible materials can bend or compress easily without cracking</li> <li>Strong materials are able to resist heavy impacts and absorb and energy without breaking</li> </ul>	<ul> <li>Identify everyday materials including wood, metabrick, rock, paper and cardboard</li> <li>Describe the properties of materials</li> <li>Compare the suitability of everyday materials for</li> <li>Find out <u>how</u> the shapes of solids objects made materials can be changed by squashing, bendin stretching</li> <li>Ask questions using scientific language</li> <li>Plan simple what to do and what observations/ r take</li> <li>Recognise some hazards</li> <li>Predict the outcome of an investigation</li> <li>Talk about what I have found out and how I four</li> </ul>	<ul> <li>Identifying everyday materials including wood, metal, plastic, glass, brick, rock</li> <li>Describing the properties of materials</li> <li>Sorting materials</li> <li>Sorting materials</li> </ul>
Vocabulary:	Images:	
Absorbent: soaks up water Flexible: can be folded easily Material: what objects are made from Observe: to look closely Opaque: can't be seen through Predict: make a guess about what might happen Properties: what a material is like and how it behaves (soft, stretcl Suitability: having the properties which are right for a specific pure		ATERIALS St

Suitability: having the properties which are right for a specific purpose Stretchy: can be pulled to make it longer or wider without breaking

Transparent: can be seen through Waterproof: it keeps water out. It keeps things dry



Spring 1 Science – humans				
Knowledge I know	Skills I car		Links back to I remember	
<ul> <li>Animals, including humans, are living</li> <li>That animals, including humans, have offspring which grow into adults</li> <li>Animals, including humans need water, food and air to survive.</li> <li>To stay healthy humans need exercise</li> <li>To stay healthy humans need the right amounts of different types of food</li> <li>How and why I should keep myself clean</li> </ul>	<ul> <li>Draw on a pictogram to show results (fave Describe how animals inc humans chang Match animals and their babies</li> <li>Ask and answer questions about a pet</li> <li>Find out about and describe the basic new humans, for survival</li> <li>Identify healthy and unhealthy food and s should eat</li> <li>Give reasons why humans need to exerci Gather information and answer a question</li> <li>Look closely and record what I see</li> </ul>	e as they grow eds of animals, including ay how much of them I ise	<ul> <li>Human beings have different body parts</li> <li>There are 5 senses</li> <li>Our sense of touch is linked to our hands/skin</li> <li>Our sense of taste is linked to our mouth/tongue/throat</li> <li>Our sense of hearing is linked to our ears</li> <li>Our sense of smell is linked to our nose</li> <li>Our sense of sight is linked to our eyes</li> <li>A pictogram is a picture representation of data</li> <li>Investigating which material would be best for a flag/bunting/bag</li> </ul>	
Vocabulary:		Images:		
Body: the physical structures including bones, flesh and organs of a pr Human: a man, women or child Pictogram: a pictorial representation of data on a chart, graph, or com Offspring: a person's children or an animal's young Exercise: being active Healthy: keeping your body 'working at its best' Survive: to remain alive Grow: increasing in size or changing physically			A Bolorced Plote Init vit veyetalist Crisis creats Bidly products Bidly Pidly Bid	

Spring 2 Science – animals Knowledge I know	Skills I can		Links back to I remember
<ul> <li>That living things – move, reproduce, grow, breathe (respire), excrete, gets nutrients</li> <li>Dead things were once alive (and no longer do the above).</li> <li>Some things have never been alive</li> <li>Most UK animals live in habitats to which they are suited</li> <li>That UK animals and plants depend on each other</li> <li>How UK animals obtain their food</li> </ul>	<ul> <li>Compare differences between living, dead and never been alive</li> <li>Describe how different UK habitats provide basic needs for UK animals</li> <li>Use a simple food chain</li> <li>Identify and classify different UK animals</li> <li>Group and classify in different ways</li> </ul>		<ul> <li>What a fish, bird, reptile, mammal and amphibian is</li> <li>What a herbivore, carnivore, omnivore eats</li> <li>Labelling the parts of common animals</li> <li>The life-cycle of a chick</li> </ul>
Vocabulary:		Images:	
<ul> <li>Dead: Dead things were once alive and no longer move, reproduce, grow, breath (respire), excrete, get nutrients</li> <li>Excretion: getting rid of waste from the body</li> <li>Food chain: a series of organisms each dependent on the next as a source of food</li> <li>Habitat: where an organism lives</li> <li>Nutrients: a substance that provides nourishment</li> <li>Reproduce: making a new generation – animals have babies, new plants grow from seeds</li> <li>Respire: using oxygen to turn food into energy</li> </ul>			

## Science Enquiry Organisers: Year 2, Cycle 1

Summer 1 Science – animals				
Knowledge I know	Skills I car		Links back to I remember	
<ul> <li>Most animals live in habitats to which they are suited</li> <li>Animals and plants depend on each other</li> <li>How animals obtain their food</li> <li>The food chain for at least one animal</li> <li>What a micro-habitat is and which animals may live there</li> </ul>	<ul> <li>Describe how different habitats provide basic needs for animals around the world</li> <li>Use a simple food chai</li> <li>Identify and name different sources of foo</li> <li>Identify and classify different animals from around the world</li> <li>Group and classify in different ways</li> <li>Identify and name a variety of animals in micro-habitats</li> <li>Use scientific vocabulary</li> <li>Use different sources of information answer questions</li> </ul>		<ul> <li>How to compare differences between living, dead and never been alive</li> <li>Some UK habitats and the animals that live in these</li> <li>How UK animals obtain their food</li> </ul>	
Vocabulary:		Images:		
Consumer: living thing that feeds on an animals or plant for energy Food chain: a series of organisms each dependent on the next as a Habitat: where an organism lives Micro-habitat: a habitat that is small Predator: an animal that naturally preys on others Prey: an animal that is hunted and killed by another for food Producer: living things that creates energy	source of food		Investigating micro-habitats         Where east the micro-habitat?       What was the habitat like? (segretive)	

Summer 2 Science -	- materials and	plants

Knowledge I know	Skills I car	Links back to I remember
<ul> <li>The names of materials</li> <li>The properties of materials e.g. fabric, metal, wood</li> <li>That materials are suitable or unsuitable for particular purposes</li> <li>That some materials are used for more than one thing e.g. metal used for can, spoon</li> <li>That different materials are used for the same thing e.g. a spoon (can be wooden, metal or plastic).</li> <li>The life-cycle of a plant (link to poetry)</li> <li>That plants need water, light and a suitable temperature to grow</li> </ul>	<ul> <li>Name, describe and give some examples of different materials</li> <li>Compare the suitability of a variety of everyday materials</li> <li>Choose a suitable material for a purpose e.g. a boat</li> <li>Talk about how a particular materials is suitable for its purpose</li> <li>Ask questions</li> <li>Plan simply what to do, what observations or measurements to tak</li> <li>Predict the outcome of an investigation</li> <li>Use simple equipment to gather data</li> <li>Use pictograms to display results, draw bar charts with help</li> <li>I can describe how a bulb/seed grows into a plant</li> <li>I can explain what plants need to grow</li> </ul>	<ul> <li>Objects are made from materials</li> <li>Investigating a suitable material for a product</li> <li>Planting bulbs</li> <li>The names of some plants</li> </ul>
Vocabulary: Bulb: a plant bud that begins to grow underground Life-cycle: the different stages of life for a living thing	Images:	
Material: what something is made of Observe: to look closely Plant: a living thing which include flowers, trees and vegetables Pictogram: a chart that uses pictures to represent data Predict: make a guess about what might happen	Seed Dizpersal 1 Roots Bean Plant 2 Fouring Leaven	