

SCIENCE COMPOSITE KNOWLEDGE



Term	Autumn One	Autumn Two	Spring One	Spring Two	Summer One	Summer Two			
EYFS	Animals including humans								
	Can you name some common animals? Do you know whether an animal is a bird, fish, mammal, reptile? Can you observe, describe and draw animals?								
	Do you know where some animals live? Can you talk about lifecycles of some animals? (frogs, chicks, butterflies)								
	Can you identify some body parts of some common animals? Can you identify some main human body parts? Can you link human body parts to senses? Plants								
	Can you find and name some of the plants in our outdoor area? Can you observe, describe and draw plants and flowers? Can you name some main parts of plants? Everyday materials								
	Can you talk about different everyday materials and their properties? (paper, card, wood etc.)								
	Seasonal change Can you name the four seasons?								
	Can you talk about different types of weather? Can you associate weather with seasons?								
YEAR 1	Animals including humans		Everyday Materials		<u>Plants</u>				
	Can you name a variety of o	common animals?	Can you name some everyo	ay materials?	What are plants and can yo of a plant?	u name the different parts			
	How can you group these a	nimals?	Can you match an object to	the material it is made	or a plane.				
	now can you group these a		from?		What types of plants can yo	ou see in the UK?			
	What is a carnivore, herbive	ore and omnivore?			, ,				
	,		How can you group objects	based on their properties?	What are trees and can you	name the different parts			
	What are the different part	s of the human body and		• •	of a tree?	·			
	can you name the senses th		Which materials are hard, s	oft, shiny and bendy?					
	these?		Why are certain materials u	sed for specific purposes?	What types of trees can you	u see in the UK?			
	Sassanal Changes and SBE								
	Seasonal Changes and SRE What are seasons?								
	Can you name the four seasons we have in the UK?								
	What types of weather will you see in different seasons?								
	How does the length of the day change in different seasons?								

YEAR 2	Living things and their habitats What are the differences between living things, things that are dead and things that have never been alive? Explain how you know if something is living. Explain what the term 'habitat' means. How and where do animals find their food?		Use of everyday materials Which materials are most suitable for different purposes and why? How can the shapes of solid objects made from some materials be changed?		Plants Explain what 'germination' means. How do seeds and bulbs grow into plants? What do plants need to grow and stay healthy?	Animals including humans & SRE What do animals including humans need in order to survive and stay healthy? What happens to baby animals and humans as time passes? Are all offspring born in the same way? How does it differ? Why is exercise, eating the right amounts of different types of food and hygiene important?
YEAR 3	Forces and magnets What is a force? Give an example of one. Which surface would be easier to cycle on, explain your reasoning. How do forces affect our lives? How do you know if two magnets will retract or repel? Which materials are magnetic? How are magnets used in everyday life?	Light What is darkness? What happens when light hits a surface? Why is it dangerous to look directly at the sun? How are shadows formed? What happens to the shadow of a stationary object when the light source moves?	Rocks What are the different types of rocks? Give an example of each one. What is a fossil? How are fossils formed? What is soil made from? Are all soils in all areas the same? Explain your reasoning.	Animals including Humans Explain the terms 'vertebrate' and 'invertebrate' Where do animals and humans get nutrition from? What are the different food groups and how do they keep us healthy? What is the function of the skeleton and muscles?	Plants Can you label the parts of the flowering plant? What is the function of the roots/stem/leaves/flowers of a plant? How is water transported within plants? What do plants need for growth and survival? Explain or draw pictures to show the life cycle of a flowering plant.	

YEAR 4	States of Matter	Electricity	Sound	Animals including	Living things in their habitats & SRE
	What is a solid, liquid,	Can you name the	How are sounds made?	<u>Humans</u>	Environments, such as oceans, Polar Regions and
	gas?	components that make a		Can you label the parts of	forests, can change. Explain how a region can change
		circuit?	How does sound travel to	the digestive system?	and the danger it can pose to living things.
	What processes occur		the ear?		and the danger it can pose to irring timigs.
	when materials change	Name items that run on		Explain the function of	What are the different groups of living things in my
	state?	electricity.	As you move further	the digestive system.	environment?
			away from a source of		
	At what temperature	How do we construct a	sound, what happens to	Can you label human	
	does water change from:	simple circuit?	the sound you hear?	teeth?	What impact do humans play on the environment?
	a. A Liquid to a gas				
	b. A liquid to a	How does a circuit work	Can you label the parts of	What are the functions of	How can changes in the environment impact living
	solid	and what is the function	the ear?	human teeth?	things?
		of a switch?			
				Which plants and animals	
	Some materials can	What materials make		are the producer,	
	change state when	good conductors?		predator and prey in this	
	heated or cooled. Explain			food chain?	
	how this happens with				
	water.				
	What is a constant and				
	What is evaporation and				
	condensation?				
	What is the Water Cycle and how does it work?				
	and now does it work?				

YEAR 5	Forces What effect do levers, pulleys and gears have on a force? Why do unsupported objects fall towards the Earth? What are the effects of air resistance/water resistance and friction?	Properties and changes in Materials What is solubility and conductivity? What are reversible changes? How can mixtures (of different states) be separated?	Properties and changes in Materials What are irreversible changes? How are new materials formed? Can you explain why some everyday materials are made from wood/plastic/metal?	Earth and Space What does the sun, Earth and moon look like? How does the Earth and other planets move? Why do we have night and day? Why does it look like the sun moves across the sky?	Living things and their habitats & SRE What are the differences in the life cycles of a mammal, an amphibian, an insect and a bird? What are the differences in sexual and asexual reproduction in plants?	Animals including Humans What are the changes a human makes when they develop into old age? How can you show human growth and development on a timeline? What is a gestation period? What differences are there between a human's gestation period and other animals? What changes take place during puberty? (SRE)
YEAR 6	Animals including humans What are the main parts of the human circulatory system? Explain the function of the heart within the circulatory system. What is the impact of diet, exercise, drugs and lifestyle on the way human bodies function? How are nutrients and water transported within animals, including humans?	Living things and their habitats What name is given to scientists who sort and classify living things into groups? How are living things classified according to common observable characteristics? How are living things, such as animals or plants, adapted to survive in different habitats?	Light Can you name the parts of the human eye? How does light travel? How do we see things? How are shadows formed? Explain why the moon is not a light source.	Electricity What are the main components of a circuit? What are the correct symbols to represent the components of a circuit? What is the effect of changing components in an electrical circuit? How do components function? What happens to the brightness of a bulb/loudness of buzzers when you increase the number of cells in a circuit?	evolution? How do we know about livithe Earth millions of years a	ween selective breeding and ing things that inhabited ago? Jution by natural selection? d? adapted to suit the