

Science - Composite Knowledge

	EYFS	YEAR ONE	YEAR TWO	YEAR THREE	YEAR FOUR	YEAR FIVE	YEAR SIX
Autumn 1	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, butterflies) Can you identify some body parts of some common animals? Can you identify some main human body parts?	Animals including humans What are 5 groups in the animal Kingdom and how do we classify and name them? What other ways can animals be classified (grouped) i.e., Eating habits?	Animals including humans What do animals including humans need in order to survive and stay healthy? (RSE) Differences Male and female animals Naming body parts	Rocks What are the different types of rocks? Where and how are they formed? What are fossils? What is soil made from?	States of Matter What is a solid, liquid, gas? What processes occur when changing state? What is the water cycle and how does it work?	Properties of materials What is solubility and conductivity? How can mixtures (of different states) be separated?	Animals including humans What are the main parts of the human circulatory system? What are the functions of the heart, blood vessels and blood?
	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?	What are the differences and similarities between different animal groups? What are parts of a human body? What are senses and what body parts are linked to each?		Light What is a light source? How does light travel? How does sun shine? How do we see? How are shadows formed? How does the moon shine? Do shadows move?	Sound How are sounds made? How does the human ear work?	Changes in materials What are irreversible changes? How are new materials formed?	
Autumn 2	Everyday materials Can you talk about different everyday materials and their properties? (paper, card, wood etc.)	Growing and caring for ourselves Different friends Growing and changing Families and Care					
	Seasonal change Can you name the four seasons? Can you talk about different types of weather? Can you associate weather with seasons?						

Science - Composite Knowledge

				What can we do to stay safe in the sun?			
Spring 1		Seasonal Changes What are seasons? What are the differences and similarities between the seasons? What types of weather will you see in different seasons?	Living things and their habitats What are the differences between living things, things that are dead and things that have never been alive? Where do different animals live and why?	Animals including humans What is the difference between humans and animals? What organs do humans have and their functions? How do humans and animals take care of their offspring? What is the life cycle of humans? (RSE) Valuing difference and keeping safe Body differences	Animals Including Humans How does the human digestive system work? What are the functions of human teeth? How does the food chain work? (RSE) Growing up Changes What is puberty? Healthy relationships	Forces What is gravity? What is air resistance? What is water resistance? What is friction? How do forces affect a mechanism? What is the effect of air resistance?	Living things and their habitats How are living things classified? How can I classify plants and animals based on specific characteristics? How and why does the body change to prepare for reproduction? (SRE) How can people start a family? (SRE)
Spring 2		Plants What are the parts of plants called?		Personal space Help and support	Electricity How does electricity work? How do we construct a working circuit?	Earth and Space How do the sun, earth and moon look like?	Electricity What are the main components of a circuit?

Science - Composite Knowledge

		What are plants and how do they work? What types of trees are there? What types of plants can you see in the UK?			Why does a circuit work?	How does the earth and other planets move? How do we have night and day? Why does it look like the sun moves across the sky?	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? Can I compare and give reasons for variations on how components function?
Summer 1		Everyday materials us feel unhappy of unsafe. (SRE) What are the names of everyday materials? What is the difference between an object and the material it is made from? How can I group objects by material?	Use of everyday materials Which materials are most suitable for different purposes and why? How can objects change shape? How can shape changes make a material suitable for a purpose?	Forces and magnets What is force? Which materials are magnetic? How does force affect our lives/how are magnets used in everyday life? What are the different types of magnets?	Living things in their habitats What impact do humans play on the environment? What are the different groups of living things in my environment? How can changes in the environment impact living things?	Living things in their habitats What is the life cycle of a mammal, amphibian, insect and bird? What are the differences between the life cycle of different animals? What is asexual reproduction in plants? What is sexual reproduction in plants?	Light How does light travel? How do we see things? How are shadows formed?

Science - Composite Knowledge

Summer 2		What materials are used for different objects? What are the similarities and differences between everyday materials? Why are certain materials used for specific uses?	Plants How do plants grow? What do they need to thrive?	Plants What are plants? What types of plants are there? How do we use plants in our everyday life? How do plants grow? What do plants need to grow? What is pollination? How do they reproduce?		Animals including humans What as 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? Can you explain the science behind the changes are made during puberty? (RSE) Puberty Talking about puberty The reproductive system Help and support	Evolution inheritance What is the process of evolution by natural selection? What features are inherited? (RSE) Puberty, relationships and reproduction Puberty and reproduction Communication in relationships Families, conception and pregnancy
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