



**SCIENCE COMPOSITE KNOWLEDGE**

Term	Autumn One	Autumn Two	Spring One	Spring Two	Summer One	Summer Two
<b>YEAR 1</b>	<p><b><u>Animals including humans</u></b>            What are the different parts of the human body and can you name the senses that are associated with these?             What are the different parts of the human body and can you name the senses that are associated with these?</p>	<p><b><u>Animals including humans</u></b>            Can you name a variety of common animals?             How can you group these animals?             What is a carnivore, herbivore and omnivore?</p>	<p><b><u>Everyday Materials</u></b>            What are the names of everyday materials?             What is the difference between an object and the material it is made from?             How can you group objects based on their properties?             Why are certain materials used for specific purposes?</p>	<p><b><u>Plants</u></b>            What are plants and can you name the different parts of a plant?             What types of plants can you see in the UK?</p>	<p><b><u>Plants</u></b>            What are plants and can you name the different parts of a plant?             What types of plants can you see in the UK?</p>	<p><b><u>Seasonal Changes</u></b>            What are seasons?             What types of weather will you see in different seasons?             How does the length of the day change in different seasons?</p>
<b>YEAR 2</b>	<p><b><u>Use of everyday materials</u></b>            Which materials are most suitable for different purposes and why?</p>	<p><b><u>Uses of everyday materials</u></b>            How can the shapes of solid objects made from some materials be changed?</p>	<p><b><u>Animals including humans</u></b>            What do animals including humans need in order to survive and stay healthy?             Why is exercise, eating the right amounts of different types of food and hygiene important?</p>	<p><b><u>Living things and their habitats</u></b>            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?</p>	<p><b><u>Plants</u></b>            How do seeds and bulbs grow into plants?             What do plants need to grow and stay healthy?</p>	<p><b><u>Living things and their habitats</u></b>            Where do different animals live and why?             How and where do animals find their food?</p>

<p><b>YEAR 3</b></p>	<p><b><u>Animals including Humans</u></b> Where do animals including humans get nutrition from?</p> <p>What is nutrition?</p> <p>What are the different food groups and how do they keep us healthy?</p> <p>What is the function of the skeleton and muscles?</p>	<p><b><u>Rocks</u></b> What are the different types of rocks?</p> <p>How are fossils formed?</p> <p>What is erosion?</p> <p>What is soil made from?</p>	<p><b><u>Forces and magnets</u></b> What is a force?</p> <p>How do forces affect our lives?</p> <p>How do you know if two magnets will retract or repel?</p> <p>Which materials are magnetic?</p> <p>How are magnets used in everyday life?</p>	<p><b><u>Plants</u></b> What is the function of the roots/stem/leaves/flowers of a plant?</p> <p>How is water transported within plants?</p> <p>What do plants need for growth and survival?</p>	<p><b><u>Light</u></b> What is darkness?</p> <p>What happens when light hits a surface?</p> <p>Why is it dangerous to look directly at the sun?</p> <p>How are shadows formed?</p> <p>What happens to the shadow of a stationary object when the light source moves?</p>	<p><b><u>Plants</u></b> What is the life cycle of a flowering plant?</p>
<p><b>YEAR 4</b></p>	<p><b><u>Animals including Humans</u></b> How does the human digestive system work?</p> <p>What are the functions of human teeth?</p>	<p><b><u>Animals including Humans</u></b> How does the food chain work?</p>	<p><b><u>States of Matter</u></b> What is a solid, liquid, gas?</p> <p>What processes occur when materials change state?</p> <p>What is the Water Cycle and how does it work?</p>	<p><b><u>Sound</u></b> How are sounds made?</p> <p>How does sound travel to the ear?</p> <p>As you move further away from a source of sound, what happens to the sound you hear?</p>	<p><b><u>Living things in their habitats</u></b> What are the different groups of living things in my environment?</p> <p>What impact do humans play on the environment?</p> <p>How can changes in the environment impact living things?</p>	<p><b><u>Electricity</u></b> How does electricity work?</p> <p>How do we construct a working circuit?</p> <p>How does a circuit work and what is the function of a switch?</p>

<p><b>YEAR 5</b></p>	<p><b><u>Living things and their habitats</u></b>            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?</p>	<p><b><u>Animals including Humans</u></b>            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)</p>	<p><b><u>Properties and changes in Materials</u></b>            What is solubility and conductivity?             What are reversible changes?             How can mixtures (of different states) be separated?</p>	<p><b><u>Properties and changes in Materials</u></b>            What are irreversible changes?             How are new materials formed?             Can you explain why some everyday materials are made from wood/plastic/metal?</p>	<p><b><u>Forces</u></b>            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?</p>	<p><b><u>Earth and Space</u></b>            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?</p>
<p><b>YEAR 6</b></p>	<p><b><u>Living things and their habitats</u></b>            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?</p>	<p><b><u>Animals including humans</u></b>            What are the main parts of the human circulatory system?             What are the functions of the heart, blood vessels and blood?             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?</p>	<p><b><u>Light</u></b>            How does light travel?             How do we see things?             How are shadows formed?</p>	<p><b><u>Light</u></b>            How are shadows formed?</p>	<p><b><u>Electricity</u></b>            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?</p>	<p><b><u>Evolution Inheritance</u></b>            What is the process of evolution by natural selection?             What features are inherited?</p>

