



Year Group	5	Subject	Science	Taught in	Autumn
Title	Investigative Skills.				
Summary	Introduction to science key skills. What is a scientist? Different types of science. Key equipment and using equipment to measure.				
Key Skills	Measure accurately with a variety of equipment and record in a table. Draw bar graphs. Write a conclusion about what they have observed and answers a question. Make predictions. Draw labelled diagrams of scientific equipment. Lab safety.				

Year Group	5	Subject	science	Taught in	Autumn
Title	Properties of materials.				
Summary	Identify and compare the properties of materials. Practical activities to observe, measure and compare properties of materials eg absorbency, stretch Separating materials challenge, which involve dissolving, filtering and evaporation. Dissolving substances. Describe properties of solid, liquid and gas. Demonstration of reversible and irreversible changes, e.g melting chocolate. Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic.				
Key Skills	Measure accurately with a variety of equipment and record observations in a table/graph. Draw bar graphs. Write a conclusion about what they have observed and answers a question. Draw labelled diagrams. Identify variables and conduct a fair test. Make predictions. Collect reliable data from practical experiments.				



Year Group	5	Subject	Science	Taught in	Spring
Title	Earth and Space				
Summary	<p>Describe the movement of the Earth, and other planets, relative to the Sun in the solar system</p> <p>Describe the movement of the Moon relative to the Earth</p> <p>Describe the Sun, Earth and Moon as approximately spherical bodies.</p> <p>Use the idea of the Earth’s rotation to explain day and night and the apparent movement of the sun across the sky.</p> <p>Understand how and why shadows change throughout the day.</p> <p>Phases of the moon.</p> <p>Know the planets of the Solar System.</p>				
Key Skills	<p>Measure accurately with a variety of equipment and record reliable data.</p> <p>Interpret observations in a table or graph.</p> <p>Write a conclusion about what they have observed and answers a question.</p> <p>Draw labelled diagrams.</p> <p>Research and select relevant information from a variety of sources.</p> <p>Record information in a variety of formats.</p> <p>Modelling the movements.</p> <p>Interpret and analyse data and use maths within science.</p> <p>Make predictions.</p> <p>Identify variables and conduct a fair test.</p> <p>Collect reliable data from practical experiments.</p>				

Year Group	5	Subject	Science	Taught in	Spring
Title	Forces				
Summary	<p>Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.</p> <p>Identify the effects of air resistance, water resistance and friction, that act between moving surfaces.</p> <p>Recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect. Give examples of when they are used.</p> <p>Identify everyday forces in action.</p> <p>Identify the effects of balanced and unbalanced forces.</p>				
Key Skills	<p>Measure accurately with a variety of equipment including a force meter and record in a table.</p> <p>Draw bar graphs.</p> <p>Write a conclusion about what they have observed and answers a question.</p> <p>Draw force diagrams.</p> <p>Make predictions.</p> <p>Identify variables and conduct a fair test.</p> <p>Collect reliable data from practical experiments.</p>				



Year Group	5	Subject	Science	Taught in	Summer
Title	Living things and their habitats				
Summary	Describe the changes in the human life cycle and compare to animals. E.g. gestation times, the stages of human development.				
Key Skills	Record information. Label diagrams. Summarise and select relevant information. Record information in a variety of formats.				

Year Group	5	Subject	Science	Taught in	Summer
Title	Life Cycles				
Summary	Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird Describe the life process of reproduction in some plants and animals.				
Key Skills	Record information in a table. Draw charts. I.e. flow charts. Label diagrams. Research and select relevant information. Record information in a variety of formats.				