



Year Group	6	Subject	Science	Taught in	Autumn
Title	Investigative Skills				
Summary	Lab safety- identify the hazards. Draw scientific diagrams of equipment and the set up. I.e. filtering. Key equipment and using equipment to measure. Develop an understanding of the stages of an investigation.				
Key Skills	Measure accurately with a variety of equipment and record in a table. Construct data tables. Write a conclusion about what they have observed and answers a question. Make predictions. Draw labelled diagrams of scientific equipment. Lab safety. Plan methods. Interpret and analyse data. Collect reliable data. Identify the independent and dependent variables. Create scientific questions.				

Year Group	6	Subject	Science	Taught in	Autumn
Title	Electricity				
Summary	Investigate the effects of changing the components in series circuits. Learn the function of components. Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches. Use recognised symbols when representing a simple circuit in a diagram. Explore the dangers of electricity. Identify faults in a circuit.				
Key Skills	Draw series circuit diagrams using symbols. Create simple methods for a fair test that will answer the investigation question, select the appropriate equipment, identify the variables and identify some hazards suggesting how to be safe. Repeat observations where appropriate. Present the observations in tables and on graphs including the headings and units. Report predictions and conclusions using scientific evidence, describing any patterns in data. Compare relationships when forming conclusions. Interpret and analyse data. Apply understanding of series circuits to solve real life problems. Understand and apply key terminology.				



Year Group	6	Subject	Science	Taught in	Autumn
Title	Light				
Summary	Recognise that light appears to travel in straight lines. Draw ray diagram to show how we see objects. Investigate how changing the light source effects the formation of shadows.				
Key Skills	Draw ray diagrams. Create simple methods for a fair test that will answer the investigation question, select the appropriate equipment, identify the variables and identify some hazards suggesting how to be safe. Take measurements using a range of equipment with increasing accuracy and precision repeating the measurements where appropriate. Present the data in tables and on graphs including the headings and units with a suitable scale. Report predictions and conclusions using scientific evidence, describing any patterns in data. They should compare relationships using the 'er' statement.				

Year Group	6	Subject	Science	Taught in	Spring
Title	Evolution and Inheritance				
Summary	Exploring inherited features in humans and animals. Using fossils to gain information about how humans have changed over time. Describe how animals have adapted to live in their habitat and how the inability to adapt causes extinction eg Dodo.				
Key Skills	Interpret data and observations. Make observations. Create diagrammatical representations, Research and select appropriate information. Write reports using scientific language.				

Year Group	6	Subject	Science	Taught in	Spring
Title	Animals and Humans				
Summary	Explore the impact of diet, exercise, drugs and lifestyle on the way their bodies function. Identify the systems and organs of the human body. Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. Describe the ways in which nutrients and water are transported within animals, including humans. Know and identify different teeth and their functions.				
Key Skills	Take measurements using a range of equipment with increasing accuracy and precision repeating the measurements where appropriate. Present the data in tables and on graphs including the headings and units with a suitable scale. Model concepts and label diagrams. Report predictions and conclusions using scientific evidence, describing any patterns in data. Make and record observations. Create diagrammatical representations. Write reports using scientific language/ understand and apply key terminology. Model movements of how the body works. I.e. the flow of blood. Using a variety of sources to select appropriate information. Interpret and analyse data. Conduct and analyse surveys.				



Year Group	6	Subject	Science	Taught in	Summer
Title	Living things and their habitats				
Summary	<p>Constructing food chains and food webs. Constructing and using keys. Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals. Give reasons for classifying plants and animals based on specific characteristics. Explore different habitats.</p>				
Key Skills	<p>Interpret data and observations. Make observations. Use sampling techniques. Create diagrammatical representations. Use and create keys. Research and select appropriate information. Write comparative reports using scientific language. Conduct field work of two different habitats.</p>				

Year Group	6	Subject	Science	Taught in	Summer
Title	Forces				
Summary	<p>Drawing force diagrams. Recognising the effects of unbalanced forces and calculating resultant force. Use formula to calculate speed and interpret distance time graphs. Compare mass and weight. Know force-extension linear relation; Hooke's Law. Explore how density can affect forces.</p>				
Key Skills	<p>Create simple methods for a fair test that will answer the investigation question. Select the appropriate equipment. Identify the variables and identify some hazards suggesting how to be safe. Take measurements using a force meter with increasing accuracy and precision repeating the measurements where appropriate. Present the data in tables and on graphs including the headings and units with a suitable scale. Make observations. Create diagrammatical representations. Write reports using scientific language. Calculate with formula.</p>				