

AUTUMN 1

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<p>Year 1- Forces and Space: Seasonal Changes</p> <p>Week 1- Wonderful weather Knowledge To identify how the weather changes across the four seasons.</p>	<p>Year 2- Living things: Habitats</p> <p>Week 1- Life processes Knowledge To identify some of the characteristics of living things.</p>	<p>Year 3- Animals: Movement and Nutrition</p> <p>Week 1- Skeletons Knowledge To explain the role of a skeleton Working scientifically To group animals based on their physical properties</p>	<p>Year 4- Classification and changing habitats</p> <p>Week 1- Grouping living things: vertebrates and invertebrates Knowledge To group animals in various ways Working scientifically To record data in different ways</p>	<p>Year 5 Properties and changes</p> <p>Week 1- Hardness Knowledge To determine the hardness of materials and link this to their uses. Working scientifically To evaluate the hardness test to determine the degree of trust in the results.</p>	<p>Year 6- Classifying big and small</p> <p>Week 1- Carl Linnaeus and classification Knowledge To explain how organisms are classified using the Linnean system</p>
<p>Week 2- Seasonal activities Knowledge To identify events and activities that take place in different seasons.</p>	<p>Week 2- It feels good to be alive Knowledge To recognise the difference between things that are alive, were once alive or have never been alive. Working scientifically To classify objects into groups.</p>	<p>Week 2-The bones in our body Knowledge To recognise the main bones in our body Working scientifically To measure and sort data</p>	<p>Week 2- Grouping living things: plants Knowledge To group plants in various ways Working scientifically To apply and create classification keys</p>	<p>Week 2- Transparency Knowledge To determine the transparency of different materials and link this to their uses Working scientifically To plan and draw a table of results</p>	<p>Week 2- Cold-blooded vertebrates Knowledge To classify the cold-blooded vertebrate group using their common characteristics</p>
<p>Week 3- How do trees change? Knowledge To recognise how trees change across the four seasons.</p>	<p>Week 3- Introduction to habitats Knowledge To identify plants and animals in different habitats</p>	<p>Week 3- Muscles and movement Knowledge To explain how muscles are used for movement Science in action To explore scientific advances</p>	<p>Week 3- Classification keys Knowledge To make careful observations Working scientifically To make and use classification keys</p>	<p>Week 3- Conductivity Knowledge To determine the conductivity of different materials and link this to their uses Working scientifically To write a detailed, organised method that is easy to follow</p>	<p>Week 3- Warm-blooded vertebrates Knowledge To classify the warm- blooded vertebrate group using their common characteristics</p>

<p>Week 4- Daylight hours Knowledge To recognise that daylight hours change across the four seasons. Working scientifically To record data in a pictogram</p>	<p>Week 4- Woodland habitats Knowledge To identify how a habitat provides animals and plants with what they need to survive Working scientifically To carry out research to find answers to questions</p>	<p>Week 4- Eating for survival Knowledge To explain how food is an essential energy source for animals Working scientifically To gather and compare data to answer questions</p>	<p>Week 4- Habitats and seasonal change Knowledge To recognise and describe different habitats and their inhabitants Working scientifically To gather, record, classify, and present data</p>	<p>Week 4- Reversible changes Knowledge To demonstrate reversible changes Working scientifically To write a prediction using prior knowledge of the states of matter</p>	<p>Week 4- Invertebrates Knowledge To classify invertebrates</p>
<p>Week 5- Observing over time Knowledge To observe changes across the four seasons. Working scientifically To gather and record data about how seasons change over time.</p>	<p>Week 5- Rainforest and ocean habitats Knowledge To recognise how animals and plants depend on each other</p>	<p>Week 5- Nutrient groups Knowledge To identify the main nutrient groups and their simple functions Working scientifically To record information using secondary sources</p>	<p>Week 5- Human impacts on habitats Knowledge To recognise the impact humans can have on habitats Working scientifically To research using an information sheet</p>	<p>Week 5- Irreversible changes: burning and rusting Knowledge To determine irreversible changes Working scientifically To analyse observations about rusting and use them to support a conclusion</p>	<p>Week 5- Plants Knowledge To describe how the plant kingdom is organised (based on shared characteristics) Working scientifically To produce a working classification key</p>
<p>Week 6- Weather reports Knowledge To plan and carry out a weather report.</p>	<p>Week 6- Food chains Knowledge To recall how animals get their food from plants and other animals</p>	<p>Week 6- Balanced diets Knowledge To explain what makes a balanced diet Science in action To explore how knowledge has progressed over time and how different jobs use this information</p>	<p>Week 6- Natural changes to habitats Knowledge To recognise the impact of natural disasters on habitats</p>	<p>Week 6- Irreversible changes: mixing Knowledge To demonstrate irreversible changes Working scientifically To measure the circumference of a balloon accurately</p>	<p>Week 6- Microorganisms Knowledge To describe and classify microorganisms</p>

AUTUMN 2

Year 1: Materials: Everyday materials	Year 2 Living things: Microhabitats	Year 3 Forces and Magnets	Year 4- Digestion and food	Year 5- Mixtures and separation	Year 6 Light and reflection
<p>Week 1- Naming materials Knowledge To identify everyday materials Working scientifically To sort objects into groups based on the materials they are made from</p>	<p>Week 1- Identifying and classifying minibeasts Working scientifically To classify a variety of minibeasts</p>	<p>Week 1- Pushes, pulls and twists Knowledge To describe the effects of contact forces Working scientifically To label a diagram using arrows and scientific vocabulary</p>	<p>Week 1- The human digestive system Knowledge To describe the function of the human digestive system Working scientifically To evaluate a model</p>	<p>Week 1- Mixtures Knowledge To describe mixtures Working scientifically To research using a range of secondary sources</p>	<p>Week 1- The pathway of light Knowledge To describe the pathway of light Working scientifically To use evidence to form conclusions</p>
<p>Week 2- Material detectives Knowledge To recognise the difference between objects and materials</p>	<p>Week 2- Introduction to scientific enquiry Working scientifically To recognise how scientists answer questions</p>	<p>Week 2- Friction Knowledge To recognise the effects and uses of forces Working scientifically To write a scientific conclusion identifying cause and effect</p>	<p>Week 2- Human teeth Knowledge To recognise the different types of human teeth and their role in eating Science in action To describe real observation methods and evidence collected</p>	<p>Week 2- Sieving Knowledge To explain the process of sieving Working scientifically To draw and annotate a diagram to explain a concept</p>	<p>Week 2- See the light Knowledge To describe how we see Working scientifically To draw scientific diagrams</p>
<p>Week 3- Introduction to properties Knowledge To describe the properties of materials</p>	<p>Week 3- Minibeast hunt Knowledge To recognise that living things live in habitats to which they are suited Working scientifically To gather and record data to answer a question</p>	<p>Week 3- Investigating friction Knowledge To interpret how and why things move differently on different surfaces Working scientifically To plan an investigation using variables</p>	<p>Week 3- Investigating dental hygiene Knowledge To explain how to care for our teeth Working scientifically To plan an enquiry by considering variables</p>	<p>Week 3- Filtering Knowledge To explain the process of filtering Working scientifically To identify testable questions and how to answer them</p>	<p>Week 3- Measuring shadows Knowledge To explain how shadows change Working scientifically To pose questions</p>

<p>Week 4- Is it absorbent? Knowledge To group materials based on their properties (absorbency) Working scientifically To make observations and record data</p>	<p>Week 4- Planning an experiment Working scientifically To ask questions and plan how to carry out an experiment</p>	<p>Week 4- Magnets Knowledge To describe the effects of magnets Working scientifically To write a method</p>	<p>Week 4- Teeth of carnivores, herbivores and omnivores Knowledge To recognise that differences in teeth relate to an animal's diet Working scientifically To classify animals based on their diet</p>	<p>Week 4- Solutions Knowledge To describe solutions and how they can be identified Working scientifically To make observations about solutions</p>	<p>Week 4- Reflecting light Knowledge To investigate what affects the angle of the reflected ray Working scientifically To record results as a line graph</p>
<p>Week 5- Is it waterproof? Knowledge To group materials based on their properties (waterproofness) Working scientifically To plan a test and suggest what might happen</p>	<p>Week 5- Woodlice experiment Working scientifically To carry out an experiment and record data in a table</p>	<p>Week 5- Investigating magnet strength Knowledge To compare the properties of different types of magnets Working scientifically To display data using a bar chart</p>	<p>Week 5- Producers, predators and prey in food chains Knowledge To recognise producers, predators and prey in food chains Working scientifically To analyse trends and form conclusions using scientific data</p>	<p>Week 5- Dissolving Knowledge To identify which factors affect the time taken to dissolve Working scientifically To plan a fair test with consideration of variables and measurements</p>	<p>Week 5- Making a periscope Knowledge To explain how a periscope works</p>
<p>Week 6- Is it tough? Knowledge To group materials based on their properties (toughness) Working scientifically To answer questions based on results</p>	<p>Week 6- What is a botanist? Knowledge To identify a variety of flowering plants Science in action To understand the role of a botanist</p>	<p>Week 6- Uses of magnets Knowledge To explain the uses of magnets Working scientifically To research the uses of magnets</p>	<p>Week 6- Poo clues Knowledge To recognise that animal poo can give us clues about digestion, teeth and diet Working scientifically To construct a results table for recording observations</p>	<p>Week 6- Evaporating Knowledge To describe the process of evaporation</p>	<p>Week 6- Using mirrors Knowledge To explain how mirrors are helpful Science in action To explore different jobs or inventions that depend on reflection</p>

SPRING 1

Year 1- Sensitive bodies	Year 2- Uses of everyday materials	Year 3- Rocks and soils	Year 4 Electricity and circuits	Year 5- Earth and space	Year 6- Evolution and inheritance
<p>Week 1- Body parts Knowledge To name parts of the human body Working scientifically To sort body parts into groups</p>	<p>Week 1- Objects and materials Knowledge To recognise that objects are made from materials that suit their uses Working scientifically To recognise that objects can be grouped</p>	<p>Week 1- Rocks: appearance Knowledge To group rocks using their appearance Working scientifically To observe the appearance of rocks closely, using a magnifying glass</p>	<p>Week 1- Using electricity Knowledge To recognise how electrical appliances are powered Working scientifically To record and classify qualitative data</p>	<p>Week 1- Models of our solar system Knowledge To compare the contributions of Ptolemy, Alhazen and Copernicus to models of the Solar system Working scientifically To pose testable questions about the solar system</p>	<p>Week 1- Variation Knowledge To explain why there are differences within a species Working scientifically To group factors</p>
<p>Week 2- The senses Knowledge To name body parts used for each sense Working scientifically To spot patterns in data</p>	<p>Week 2- Which material is suitable? Knowledge To recognise that objects are made from materials that suit their uses</p>	<p>Week 2- Rocks: physical properties Knowledge To group rocks using their physical properties Working scientifically To make predictions, suggest improvements and explain observations over time</p>	<p>Week 2- Building circuits Knowledge To construct an electrical circuit Working scientifically To draw a scientific diagram</p>	<p>Week 2- Our solar system Knowledge To describe the movement and shapes of the celestial bodies in our Solar system Working scientifically To develop a model to represent the Solar system</p>	<p>Week 2- Inheritance Knowledge To recognise the inheritance of characteristics in plants and animals</p>
<p>Week 3- Taste and touch Knowledge To identify the body parts used for the sense of taste and touch</p>	<p>Week 3- Stretch it, twist it, bend it, squash it! Knowledge To recognise that the shape of some solid objects can be changed</p>	<p>Week 3- Fossil formation Knowledge To describe the process of fossil formation Working scientifically To present research on fossil formation</p>	<p>Week 3- Switching on and off Knowledge To explain the uses of switches in a circuit</p>	<p>Week 3- The moon Knowledge To describe the movement of the moon, relative to the earth Working scientifically To design and draw a table</p>	<p>Week 3- Adaptations Knowledge To explain why adaptation is necessary</p>

<p>Working scientifically To use the senses to make observations</p>	<p>Working scientifically To record data in a table</p>				
<p>Week 4- Sight and smell Knowledge To identify the body parts used for the sense of smell and sight Science in action To recognise that scientists are always making new discoveries</p>	<p>Week 4- Testing stretchiness Knowledge To compare the suitability of materials for particular uses Working scientifically To gather data and use it to answer a question</p>	<p>Week 4- Fossils and palaeontology Knowledge To identify fossils and group rocks accordingly Working scientifically To use the fossil record to answer questions about the past</p>	<p>Week 4- Investigating electrical conductors and insulators Knowledge To explain the use of materials as electrical conductors or insulators Working scientifically To write a method</p>	<p>Week 4- Day and night Knowledge To explain the causes of day and night and the seasons Working scientifically To draw a diagram to explain day and night</p>	<p>Week 4- Modelling natural selection Knowledge To model how natural selection affects population size Working scientifically To evaluate the degree of trust and pose new questions for further enquiry</p>
<p>Week 5- Hearing Knowledge To identify the body part used for the sense of hearing Working scientifically To investigate how sound changes as you move further away</p>	<p>Week 5- Testing strength Knowledge To recognise that the strength of some materials can be changed Working scientifically To record data in a block graph</p>	<p>Week 5- Soil formation Knowledge To compare soils and how they were formed Working scientifically To record the drainage rate for different soils in a bar chart</p>	<p>Week 5- Investigating bulb brightness Knowledge To investigate what affects bulb brightness Working scientifically To pose questions and plan ways to test them</p>	<p>Week 5- Time Knowledge To devise a sundial to tell the time Working scientifically To calibrate and use a sundial to measure time</p>	<p>Week 5- Evolution Knowledge To describe the theory of evolution Working scientifically To consider evidence used to inform theories</p>
<p>Week 6- Senses in action Knowledge To recognise how the senses are used in everyday life Science in action To recognise the importance of the senses in certain jobs</p>	<p>Week 6- Eco friendly materials Knowledge To compare the suitability of materials for particular uses Science in action To recognise that some materials are harmful to the environment</p>	<p>Week 6- Soil layers and earthworms Knowledge To describe a soil sample using sedimentation Working scientifically To draw and label a diagram</p>	<p>Week 6- Electrical safety Knowledge To explain how to be safe around electricity Science in action To explore how scientific advances inform safety advice</p>	<p>Week 6- Satellites and space junk Knowledge To describe some uses of satellites and the problems posed by space junk Working scientifically To use temperature data to make predictions about climate change</p>	<p>Week 6- Evidence for evolution Knowledge To recognise evidence that can be used for evolution Working scientifically To consider the degree of trust in the evidence used</p>

SPRING 2

Year 1- Comparing animals	Year 2- Life cycles and health	Year 3- Energy- Light and Shadows	Year 4- States of matter	Year 5- Life cycles and reproduction	Year 6- Circuits, batteries and switches
<p>Week 1- Animal groups Knowledge- To identify and group animals</p>	<p>Week 1- The human life cycle Knowledge To identify different stages of the human life cycle</p>	<p>Week 1- Sources of light Knowledge To explain the role of light sources Working scientifically To plan and draw a results table</p>	<p>Week 1- Solids Knowledge To identify solids using their properties Working scientifically To ask relevant questions about the properties of solids</p>	<p>Week 1- Life cycles and reproduction in plants Knowledge To describe the life cycle of a plant, including the reproductive stage Working scientifically To observe and compare equivalent parts in different flowers</p>	<p>Week 1- Components and circuits Knowledge To use recognised symbols for electrical components</p>
<p>Week 2- Describing animals Knowledge To describe a variety of animals</p>	<p>Week 2- Life cycles Knowledge To know which offspring come from which parent animal</p>	<p>Week 2-What is reflection? Knowledge To compare light reflecting on different surfaces</p>	<p>Week 2- Liquids and gases Knowledge To identify liquids and gases using their properties Working scientifically To use results to draw simple conclusions about the properties of liquids</p>	<p>Week 2- Life cycle of a mammal Knowledge To describe the life cycle of a mammal Working scientifically To research the life cycles of different mammals</p>	<p>Week 2- Circuit diagrams Knowledge To predict and present results for electrical circuits Working scientifically To use standardised symbols when drawing diagrams</p>
<p>Week 3- Comparing animals Knowledge. To compare the features of animals</p>	<p>Week 3- Growth Knowledge To observe and measure growth in humans Working scientifically To use simple measuring equipment</p>	<p>Week 3- Where do shadows come from? Knowledge To recognise which materials cast a shadow Working scientifically To ask testable questions and plan how to answer them</p>	<p>Week 3- Melting and freezing Knowledge To describe melting and freezing Working scientifically To use thermometers to take accurate measurements before and after melting</p>	<p>Week 3- Life cycle of a bird Knowledge To describe the life cycle of a bird and compare it with that of a mammal Working scientifically To pose questions to compare the life cycles of different birds</p>	<p>Week 3- Current and resistance Knowledge To recognise a link between the number of components and resistance Working scientifically To explain results using scientific knowledge</p>

<p>Week 4- Carnivore, herbivore or omnivore? Knowledge To identify animals that are carnivores, herbivores and omnivores Working scientifically To research using non-fiction texts</p>	<p>Week 4- Survival Knowledge To identify and list the basic needs for survival for humans and animals Working scientifically To use secondary sources to research</p>	<p>Week 4-Shadows throughout the day Knowledge To summarise how shadows change throughout the day Working scientifically To evaluate a method</p>	<p>Week 4- Condensing and evaporating Knowledge To describe condensing and evaporating Working scientifically To make predictions for new values about evaporation rates</p>	<p>Week 4- Life cycle of an amphibian Knowledge To describe the life cycle of an amphibian Working scientifically To suggest how temperature may affect egg hatching</p>	<p>Week 4- Batteries and voltage Knowledge To identify ways to change voltage within an electrical circuit Working scientifically To design a results table</p>
<p>Week 5- Pets Knowledge To recognise animals that make suitable pets Working scientifically To gather and record data to help in answering questions</p>	<p>Week 5- Exercise and hygiene Knowledge To recognise the importance of exercise and personal hygiene Working scientifically To make observations over time</p>	<p>Week 5- Investigating shadows Knowledge To investigate how the distance of the light source affects the size of its shadow Working scientifically To find patterns in data and form conclusions</p>	<p>Week 5- The water cycle Knowledge To describe the different stages of the water cycle Working scientifically To record the stages of the water cycle using a labelled diagram</p>	<p>Week 5- Life cycle of an insect Knowledge To describe the life cycle of an insect and compare it with that of an amphibian Working scientifically To use data to describe a relationship and make predictions</p>	<p>Week 5- Voltage and bulb brightness Knowledge To investigate how voltage affects bulb brightness Working scientifically To plan an enquiry</p>
<p>Week 6- Jane Goodall Knowledge To describe and compare the structure of animals Science in action To know about famous scientists throughout history</p>	<p>Week 6- Balanced diet Knowledge To identify how to have a balanced diet Working scientifically To interpret collected results</p>	<p>Week 6- Using light and shadows Knowledge To tell a story using shadow puppets Science in action To recall how different people work with light and shadows</p>	<p>Week 6- Climate change and the water cycle Knowledge To describe how temperature affects evaporation rates and the water cycle Working scientifically To research climate change and the water cycle</p>	<p>Week 6- Asexual reproduction in plants Knowledge To describe asexual reproduction in plants Working scientifically To represent root growth over time on a line graph</p>	<p>Week 6- Practical circuits Knowledge To apply knowledge of circuits and components to a practical solution Science in action To recognise that scientific knowledge can solve a problem</p>

SUMMER 1

Year 1- Introduction to plants	Year 2- Plant growth	Year 3- Plant reproduction	Year 4- Sound and vibrations	Year 5- Forces and space: Unbalanced forces	Year 6- Animals: Circulation and health
<p>Week 1- What is a plant? Knowledge To identify plants in the school grounds Working scientifically To plan an investigation</p>	<p>Week 1- What do seeds need to grow? Knowledge To recognise that seeds need certain conditions for growth Working scientifically To plan comparative tests</p>	<p>Week 1- Plant growth Knowledge To identify the growth and survival needs of plants Working scientifically To pose relevant questions</p>	<p>Week 1- Vibrations Knowledge To describe how sounds are made Working scientifically To observe closely how different instruments create a sound</p>	<p>Week 1- Gravity Knowledge To describe gravity and its effects Working scientifically To analyse data to write a conclusion</p>	<p>Week 1- Factors affecting health Knowledge To identify factors that affect our health and how to reduce their negative impact Working scientifically To evaluate sources of information</p>
<p>Week 2- Parts of a plant Knowledge To identify parts of a flowering plant Working scientifically To draw and label a diagram</p>	<p>Week 2- Seeds and bulbs Knowledge To recognise that seeds and bulbs contain what they need to grow into a plant Working scientifically To measure with a ruler</p>	<p>Week 2- Structure and function Knowledge To describe the relationship between structure and function of plants Working scientifically To design simple results tables</p>	<p>Week 2- Sound waves Knowledge To describe how sounds are heard through different mediums Working scientifically To research how whales and dolphins communicate underwater</p>	<p>Week 2- Air resistance Knowledge To describe air resistance and its effects Working scientifically To plan a fair test to investigate air resistance</p>	<p>Week 2- The heart and circulatory system Knowledge To summarise the key structures and purpose of the circulatory system</p>
<p>Week 3- Wild and garden plants Knowledge To identify and name wild and garden plants Working scientifically To sort flowers into groups</p>	<p>Week 3- Germination Knowledge To describe what seeds need to germinate Working scientifically To record data in a table</p>	<p>Week 3- Transporting water Knowledge To investigate how water is transported in plants Working scientifically To plan a simple enquiry</p>	<p>Week 3- Volume Knowledge To describe the relationship between vibration strength and volume Working scientifically To present results using a bar chart</p>	<p>Week 3- Water resistance Knowledge To describe water resistance and its effects Working scientifically To design a results table</p>	<p>Week 3- Blood Knowledge To identify the key roles of blood Working scientifically To evaluate a model</p>

<p>Week 4- Deciduous and evergreen trees Knowledge To identify and name deciduous and evergreen trees Working scientifically To measure and compare leaves</p>	<p>Week 4- Light and plant growth Knowledge To describe the effect of light on plant growth Working scientifically To observe using a magnifying glass</p>	<p>Week 4- Flowers Knowledge To explore the role of flowers in the life cycle of a plant Working scientifically To complete, read and interpret data in a bar chart</p>	<p>Week 4- Volume and distance Knowledge To describe the relationship between volume and distance Working scientifically To suggest which variables to measure and for how long</p>	<p>Week 4- Friction Knowledge To describe friction and its effects Working scientifically To evaluate a method</p>	<p>Week 4- Heart rate Knowledge To explore the relationship between animal size and heart rate Working scientifically To interpret patterns in data</p>
<p>Week 5- Sorting seeds Knowledge To recognise that new plants come from seeds and bulbs Working scientifically To recognise that observations do not always match predictions</p>	<p>Week 5- Plant life cycle Knowledge To identify stages of a plant's life cycle Working scientifically To draw and label a diagram</p>	<p>Week 5- Evaluating an enquiry Knowledge To apply knowledge of plant life and growth Working scientifically To identify and suggest changes to an enquiry</p>	<p>Week 5- Pitch Knowledge To describe pitch and how to change it Working scientifically To design simple results tables</p>	<p>Week 5- Levers, pulleys and gears Knowledge To describe the effects of levers, pulleys and simple machines on movement Working scientifically To draw and label a diagram</p>	<p>Week 5- Investigating exercise and heart rate Knowledge To investigate the relationship between exercise and heart rate Working scientifically To write a method</p>
<p>Week 6- Which plant parts can you eat? Knowledge To recognise the importance of a scientist's role Working scientifically To use observations to find answers to questions</p>	<p>Week 6- Plant care Knowledge To recognise what plants need for healthy growth Science in action To recognise that humans have a responsibility to care for plants</p>	<p>Week 6- Seed dispersal Knowledge To explore seed dispersal methods Working scientifically To use results to draw conclusions</p>	<p>Week 6- Sound insulation Knowledge To explain how insulating materials can be used to muffle sound Working scientifically To identify when results or observations do not match predictions</p>	<p>Week 6- Levers, pulleys and gears Knowledge To describe the relationship between lever length and effort Working scientifically To draw an accurate line graph</p>	<p>Week 6- Heart rate and fitness Knowledge To describe the relationship between heart rate and fitness Working scientifically To draw a line graph</p>



SUMMER 2

Year 1- Making connections: Investigating science through stories	Year 2- Making connections: Plant-based materials	Year 3- Making connections: Does hand span affect grip strength?	Year 4- Making connections: How does the flow of liquids compare?	Year 5- Animals: Human timeline (3 weeks) Making connections: Does the size of an asteroid affect the diameter of its impact crater? (3 weeks)	Year 6- Making connections: Are some sunglasses safer than others?
Week 1- Do taller trees have wider trunks? Knowledge To observe changes across the seasons Working scientifically To spot patterns in data	Week 1- Reduce, reuse, recycle Knowledge To describe how materials can be reused Science in action To understand how the 3R's contribute to sustainable products	Week 1- Investigating grip strength- planning Knowledge To revise the units Movement and Nutrition and Rocks and soils Working scientifically To plan a pattern seeking enquiry	Week 1- Investigating liquids- planning Knowledge To revise the units States of matter and Classification and changing habitats Working scientifically To plan a comparative test	Animals: Human timeline Week 1- Growing old Knowledge To describe how humans change from babies through to old age Working scientifically To use a line graph to identify patterns in height and predict values	Week 1- Investigating sunglasses- planning Knowledge To revise the units Circulation and health and Light and reflection
Week 2- Comparing woodland animals Knowledge To describe and compare the features of animals Working scientifically To carry out research to find specific information	Week 2- From plants to products Knowledge To identify human-made and natural materials Working scientifically To group based on characteristics	Week 2- Investigating grip strength- gathering data Knowledge To revise the units Movement and Nutrition and Plant reproduction Working scientifically To gather and record data	Week 2- Investigating liquids- gathering data Knowledge To revise the unit Electricity and circuits Working scientifically To gather and record data	Week 2- Puberty Knowledge To identify changes in males and females as a result of puberty	Week 2- Investigating sunglasses- gathering data Knowledge To revise the units Light and reflection and Circuits, batteries and switches Working scientifically To gather and record data
Week 3- Measuring animal footprints Knowledge To identify differences in animal features Working scientifically To use a ruler to measure	Week 3- Testing suitability Knowledge To identify suitable materials based on their properties Working scientifically To perform a test and gather data	Week 3- Investigating grip strength- analysing, concluding and evaluating Knowledge To revise the unit Forces and magnets	Week 3- Investigating liquids- analysing, concluding and evaluating Knowledge To revise the units States of matter and Sound and vibrations	Week 3- Comparing human gestation Knowledge To explore the gestation periods of humans and other animals Working scientifically To plot data on a scatter graph	Week 3- Investigating sunglasses- analysing, concluding and evaluating Knowledge To revise the units Light and reflection and Circulation and health

		Working scientifically To conclude and evaluate the investigation	Working scientifically To conclude and evaluate the investigation		Working scientifically To conclude and evaluate the investigation
<p>Week 4- Building an animal home Knowledge To describe the properties of everyday materials Working scientifically To plan how to carry out a test</p>	<p>Week 4- Testing plant pots Knowledge To identify a material to help plant growth Working scientifically To use observations to answer a simple question</p>	<p>Week 4- Investigating grip strength- extending Knowledge To revise the unit Uses of Materials Working scientifically To use sets of data to inform design</p>	<p>Week 4- Investigating liquids- extending Knowledge To revise the unit Digestion and food Working scientifically To observe carefully and apply these observations to problem solve</p>	<p>Making connections Week 4- Investigating asteroid craters- planning Knowledge To revise the units Earth and space and Life cycles and reproduction Working scientifically To plan a comparative test</p>	<p>Week 4- Investigating sunglasses- extending Knowledge To revise the units Classifying big and small, Evolution and Inheritance, Light and reflection and Circulation and health</p>
<p>Week 5- Are birds carnivores, herbivores or omnivores? Knowledge To identify animals that are carnivores, herbivores and omnivores</p>	<p>Week 5- Choosing materials Knowledge To choose materials to create a simple plant pot Working scientifically To identify and classify living things</p>	<p>Week 5- Investigating grip strength- presenting Knowledge To revise the units Light and shadows and Movement and Nutrition Working scientifically To report on my findings using a shadow puppet display</p>	<p>Week 5- Investigating liquids- presenting Knowledge To revise the unit States of matter Working scientifically To report on my findings</p>	<p>Week 5- Investigating asteroid craters- gathering data Knowledge To revise the units Unbalanced forces and Mixtures and separation Working scientifically To gather and record data</p>	<p>Week 5- Investigating sunglasses- presenting Knowledge To revise the units Light and reflection and Circulation and health Working scientifically To report on findings in the form of an advert</p>
				<p>Week 6- Investigating asteroids- analysing, concluding and evaluating Knowledge To revise the units Separating mixtures and Unbalanced forces Working scientifically To conclude and evaluate the investigation</p>	