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| **Year 1** | | |
| **Autumn 1** | **Spring 1** | **Summer 1** |
| **Seasonal Changes - Physics** Pupils should be taught to:  - observe changes across the four seasons  - observe and describe weather associated with the seasons and how day length varies  -ask simple questions and recognising that they can be answered in different ways  -observe closely, using simple equipment - perform simple tests - identify and classify -use their observations and ideas to suggest answers to questions - gather and recording data to help in answering questions  **Vocab**  Season, Summer, Winter, Autumn, Spring, Day, Daytime, Weather, Wind, Rain, Snow, Hail, Sleet, Fog  Sun, Hot, Warm, Cold  **Please use FF, RW documents for retrieval opportunities.** | **Identifying Plants - Biology** Pupils should be taught:  -identify and name a variety of common wild and garden plants, including deciduous and evergreen trees - identify and describe the basic structure of a variety of common flowering plants, including trees  -ask simple questions and recognising that they can be answered in different ways  -observe closely, using simple equipment  -identify and classify -use their observations and ideas to suggest answers to questions  -gather and recording data to help in answering questions  **Vocab**  Common, Wild, Plants, Garden, Deciduous, Evergreen, Trees, Weed, Wild, herb, Trunk, Branches, Leaf, Root, Plan, Bud, Flowers, Blossom, Petals, Stem, Fruit, Vegetable, vegetation, Bulb, seed | **Identifying Animals - biology**  Pupils should be taught to:  -identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals  -identify and name a variety of common animals that are carnivores, herbivores and omnivores  -describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) -ask simple questions and recognising that they can be answered in different ways.  -observe closely, using simple equipment  identifying and classifying.  **Vocab** Fish, Amphibians, Reptiles, gills, Birds, Mammals  Pets Carnivores, Meat, Herbivores, Plants, Omnivores, Vertebrate, Invertebrates, Senses, Backbone, Warm blooded, Cold blooded, Environment, Temperature, wild, farm, pet. |

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| **Autumn 2** | **Spring 2** | **Summer 2** |
| **My Body - biology** Pupils should be taught to:  -identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense -ask simple questions and recognising that they can be answered in different ways  -observe closely, using simple equipment  -perform simple tests  -identify and classify -use their observations and ideas to suggest answers to questions  **Vocab**  Body, senses, sight, touch, smell, taste, sound  **Please use FF, RW documents for retrieval opportunities.** | **Everyday materials - Chemistry**  Pupils should be taught to:  -distinguish between an object and the material from which it is made - identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock  -describe the simple physical properties of a variety of everyday materials  -compare and group together a variety of everyday materials on the basis of their simple physical properties  -observe closely, using simple equipment   -perform simple tests  - identify and classify -use their observations and ideas to suggest answers to questions  **Vocab**  Manmade, natural, Rock, Hard/soft, Stretchy, Stiff, Shiny, dull, Rough, Smooth, Bendy, Waterproof, Absorbent, Brick, Paper, Fabrics, Elastic, Foil, Opaque  Transparent | **Science Adventures – See separate document.** |

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| **Year 2** | | |
| **Autumn 1** | **Spring 1** | **Summer 1** |
| **Exploring everyday materials - physics** Pupils should be taught to: -identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses  -find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching -ask simple questions and recognising that they can be answered in different ways - observe closely, using simple equipment  - perform simple tests - identify and classify  **Vocab**  Twisting, Squashing, Bending, Coins, Cans, Cars, Table  Legs, Matches, Floors, plastic, metal, cardboard, wood, glass. | **Plants - biology**  Pupils should be taught to  -explore and compare the differences between things that are living, dead, and things that have never been alive -identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other. -identify and name a variety of plants and animals in their habitats, including micro-habitats.  -observe and describe how seeds and bulbs grow into mature plants. -find out and describe how plants need water, light and a suitable temperature to grow and stay health.  -ask simple questions and recognising that they can be answered in different ways  -observe closely, using simple equipment  -perform simple tests - identify and classify  -use their observations and ideas to suggest answers to questions - gathering and recording data to help in answering questions  **Vocab**  Water, Light, Temperature, Suitable, Grow, Healthy, Germination, Reproduce, Crop, Nutrients, petal | **Super Scientists** Pupils should be taught to:  -describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene -ask simple questions and recognising that they can be answered in different ways  -observe closely, using simple equipment  -performing simple tests  -use their observations and ideas to suggest answers to questions - gather and recording data to help in answering questions  **Vocab**  Gravity, light, sound, senses, germs, electrical |

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| **Autumn 2** | **Spring 2** | **Summer 2** |
| **Living things and their habitats - biology** Pupils should be taught to  -explore and compare the differences between things that are living, dead, and things that have never been alive  -identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other - identify and name a variety of plants and animals in their habitats, including micro-habitats  - describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food -observe closely, using simple equipment  -identify and classify  - use their observations and ideas to suggest answers to questions  **Vocab**  living, dead, habitats, plants, seaside, micro-habitat, food chains | **Growth and Survival - biology** Pupils should be taught to:  -notice that animals, including humans, have offspring which grow into adults - find out about and describe the basic needs of animals, including humans, for survival (water, food and air) - describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene  -ask simple questions and recognising that they can be answered in different ways  -perform simple tests  -identify and classify -using their observations and ideas to suggest answers to questions  -gathering and recording data to help in answering questions  **Vocab**  Offspring, Grow, Adults, Nutrition, Reproduce, Survival, Water, Food, Air, Exercise, Balanced diet  Muscle, Medicine, Disease, Bones, Hygiene | **Science Adventures – See separate document.** |

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| **Year 3** | | |
| **Autumn 1** | **Spring 1** | **Summer 1** |
| **Rocks, Fossils and Soils - chemistry**  -compare and group together different kinds of rocks on the basis of their appearance and simple physical properties  -describe in simple terms how fossils are formed when things that have lived are trapped within rock  -recognise that soils are made from rocks and organic matter  -setting up simple practical enquiries, comparative and fair tests  -making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers  -gathering, recording, classifying and presenting data in a variety of ways to help in answering questions  -reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions  -using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions  -using straightforward scientific evidence to answer questions or to support their findings  **Vocab**  Absorb, Bedrock, Decaying, Grain, Igneous, Imprint  Leaf litter, Magma, Man-made, Metamorphic, Mineral  Molten, Natural, Nutrients, Palaeontology, Permeable  Porous, Prehistoric, Preserve, Pressure, Properties, Rock, Sediment, Soil, Surface, Surrounding, Volcano, weathered | **Light and Shadow - physics**  -recognise that they need light in order to see things and that dark is the absence of light - notice that light is reflected from surfaces  recognise that light from the sun can be dangerous and that there are ways to protect their eyes  -recognise that shadows are formed when the light from a light source is blocked by a solid object  -find patterns in the way that the size of shadows change  -setting up simple practical enquiries, comparative and fair tests  -making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers  -gathering, recording, classifying and presenting data in a variety of ways to help in answering questions  -recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables  -reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions  -using straightforward scientific evidence to answer questions or to support their findings  **Vocab**  Light, Dark, Reflect, Surface, Natural, star, Sun, Moon, Shadow, Blocked, Solid, Artificial, Torch, Candle, Lamp  Sunlight, Dangerous, Protect eyes, Angle, Bright, Dim, Emits, Electricity, Mirror, Translucent, Product  Sunglasses, source | **Health and Movement - biology**  -identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat  -identify that humans and some other animals have skeletons and muscles for support, protection and movement  -asking relevant questions and using different types of scientific enquiries to answer them  -gathering, recording, classifying and presenting data in a variety of ways to help in answering questions  -recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables  -reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions - identifying differences, similarities or changes related to simple scientific ideas and processes  **Vocab**  Nutrition, Vitamins, Minerals, Fat, Protein, Carbohydrates, Fibre, Water, Skeletons, Support, Protection, Skull, Brain, Ribs, Heart, Movement, Joint, Muscles, Movement, Pull, Contract, Relax, diet |

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| **Year 3** | | |
| **Autumn 2** | **Spring 2** | **Summer 2** |
| **Forces and Magnets - physics**  -compare how things move on different surfaces  notice that some forces need contact between two objects, but magnetic forces can act at a distance  -observe how magnets attract or repel each other and attract some materials and not others  compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials  -describe magnets as having two poles  predict whether two magnets will attract or repel each other, depending on which poles are facing. asking relevant questions and using different types of scientific enquiries to answer them - setting up simple practical enquiries, comparative and fair tests  -making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers  -recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables  -reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions  -using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions | **How Plants Grow - biology**  -identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers  -explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant  -investigate the way in which water is transported within plants  -explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal  -asking relevant questions and using different types of scientific enquiries to answer them  -setting up simple practical enquiries, comparative and fair tests  -making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers  -gathering, recording, classifying and presenting data in a variety of ways to help in answering questions  -recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables  -reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions  -using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions  -identifying differences, similarities or changes related to simple scientific ideas and processes  -using straightforward scientific evidence to answer questions or to support their findings  **Vocab**  Structure, Flowering plant, Petal, Function, Nutrition  Support, Reproduction, Photosynthesis, Air, Light  Water, Nutrients, Soil, Needs, Requirements, Fertiliser  Life cycle, Flowers, Seed formation, Dispersal | **Science Adventures – See separate document.** |

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| **Year 4** | | |
| **Autumn 1** | **Spring 1** | **Summer 1** |
| **Eating and Digestion - biology**  -describe the simple functions of the basic parts of the digestive system in humans  -identify the different types of teeth in humans and their simple functions  -construct and interpret a variety of food chains, identifying producers, predators and prey  asking relevant questions and using different types of scientific enquiries to answer them  - setting up simple practical enquiries, comparative and fair tests  -recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables - reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions  -identifying differences, similarities or changes related to simple scientific ideas and processes  -using straightforward scientific evidence to answer questions or to support their findings  **Vocab**  digestive system, digestion, Mouth, Tongue, Mixes, Moistens, Saliva, Teeth, Plaque, Enamel, decay, Incisors, Canines , Molars, Premolars, Oesophagus, Transports, Stomach, Acid, Enzymes, intestine, Absorbs, Vitamins, Compacts, Carnivores, Herbivores, omnivores | **Changing Sounds - physics**  -identify how sounds are made, associating some of them with something vibrating   -recognise that vibrations from sounds travel through a medium to the ear  -find patterns between the pitch of a sound and features of the object that produced it  -find patterns between the volume of a sound and the strength of the vibrations that produced it  -recognise that sounds get fainter as the distance from the sound source increases. -asking relevant questions and using different types of scientific enquiries to answer them - setting up simple practical enquiries, comparative and fair tests  -making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers  -gathering, recording, classifying and presenting data in a variety of ways to help in answering questions  -recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables  -using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions  **Vocab**  Vibrations, Air, Ear, Hear, Sound, Volume, Decibel  Electricity, Energy, Power, Sound waves, Source, Transparent, Travel, Pitch, Faint, Loud, Ear drum | **States of Matter - chemistry**  -compare and group materials together, according to whether they are solids, liquids or gases  -observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C)  -identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature. -asking relevant questions and using different types of scientific enquiries to answer them - setting up simple practical enquiries, comparative and fair tests  -gathering, recording, classifying and presenting data in a variety of ways to help in answering questions  -recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables  -reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions   -using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions   -using straightforward scientific evidence to answer questions or to support their findings  **Vocab**  Appearance, Physical properties, Ice, Melting, Melting point, Freezing, Freezing point, Liquid, Evaporate, Condense, Gas, Changing state, Particles, Precipitation, Process, vibrations, Heating, cooling, Degrees, Celsius |

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| **Year 4** | | |
| **Autumn 2** | **Spring 2** | **Summer 2** |
| **Living In Environments – biology**  -recognise that living things can be grouped in a variety of ways  -explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment  -recognise that environments can change and that this can sometimes pose dangers to living things -making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers  -gathering, recording, classifying and presenting data in a variety of ways to help in answering questions  -recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables  -identifying differences, similarities or changes related to simple scientific ideas and processes  **Vocab**  Environment, Vertebrate, Invertebrates, Food chain, Classification, Criteria, Biomes, Excretion, Food chain, Habitat, Carnivore, Omnivore, Herbivore, Life processes, Microhabitat, Organism, Reproduction, Respiration, Sensitivity, Urban, Vegetation , Plants, Non-flowering, Deforestation | **Circuits and Conductors - physics**  identify common appliances that run on electricity   -construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers  -identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery  -recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit  -recognise some common conductors and insulators, and associate metals with being good conductors. -asking relevant questions and using different types of scientific enquiries to answer them  -setting up simple practical enquiries, comparative and fair tests  -making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers  -recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables  -using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions - identifying differences, similarities or changes related to simple scientific ideas and processes  **Vocab**  Appliances, Electricity, Circuit, Electrical, Cell, Wire, Bulb, Buzzer, Danger, Safety, Sign, Insulator, Wood, Rubber, Plastic, Glass, Conductor, Metal, Water, Switch, Open, Closes, Battery, Component, Current, Device, Energy, Fuel, Generate mains, Motor, power | **Science Adventures – See separate document.** |

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| **Year 5** | | |
| **Autumn 1** | **Spring 1** | **Summer 1** |
| **Earth and Space - physics**  -describe the movement of the Earth, and other planets, relative to the Sun in the solar system  -describe the movement of the Moon relative to the Earth  -describe the Sun, Earth and Moon as approximately spherical bodies  -use the idea of the Earth’s rotation to explain day and night and the apparent movement of the sun across the sky  -recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs  **Vocab**  Earth, Sun, Moon, Planets, Star, Solar system, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, Movement, Rotate, Orbit, Axis, Asteroid, Comet, Galaxy, Gravity, shadow, Sphere, Light, Heat, Eclipse, Satellite, Universe, Solar, Leap year | **Properties and changes of materials - chemistry**  -know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution  -use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating  -give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic  -demonstrate that dissolving, mixing and changes of state are reversible changes  -explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.  -planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary  -reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations  **Vocab**  Soluble, insoluble, Transparency, Conductive (electrical and thermal), magnetic, Dissolve, Liquid, Solution, Separate, Filtering, Sieving, Reversible, Mixing, Irreversible, Burning, Rusting, Magnetism, Chemical, Circuit | **Changes and Reproduction - biology**  -identifying scientific evidence that has been used to support or refute ideas or arguments  -describe the changes as humans develop to old age  -planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary - taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate  -recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs - using test results to make predictions to set up further comparative and fair tests  -reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations |

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| **Year 5** | | |
| **Autumn 2** | **Spring 2** | **Summer 2** |
| **Forces in Action - physics**  -explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object  -identify the effects of air resistance, water resistance and friction, that act between moving surfaces  -recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.  -planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary  -taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate  -recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs  -reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations  **Forces**  Link to Earth, Gravity, Air resistance, Water resistance  Friction, Surface, Force, Effect, Move, Accelerate, Decelerate, Stop, Change direction, Brake, Mechanism, Pulley, Gear, Spring, Theory of gravitation, Galileo, Isaac Newton | **Life Cycles - biology**  -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. -taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate  -recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs  -reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations  -identifying scientific evidence that has been used to support or refute ideas or arguments  **Forces**  Life cycles, Life process, Reproduction, Plants, Pollination, Seed, dispersal, flower, flowering, Nectar, Pollen, Stigma, structure, Style, Ovary, Ovule, Anther, Filament, Petal, Germination, Gamete, Bulb, Cell, Dissect, Embryo, Fertilisation, Mature, Metamorphosis, structure | **Science Adventures – See separate document.** |

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| **Year 6** | | |
| **Autumn 1** | **Spring 1** | **Summer 1** |
| **Healthy Bodies - biology**  -identifying scientific evidence that has been used to support or refute ideas or arguments - identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood  -recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function  -describe the ways in which nutrients and water are transported within animals, including humans  -planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary  -taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate  -recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs  - reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations  **Vocab**  Internal organs, Heart, Lungs, Liver, Kidney, Brain, Skeleton, Muscle, Muscular, Digest, Digestion, Digestive, Circulatory system, Blood vessels, Blood, Blood type, Impact, Diet, Exercise, Drug, Lifestyle, | **Organisms - biology**  -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. -planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary  -recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs  -reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations  **Vocab**  Micro-organisms, Classification, Classify, Similarities, differences | **Seeing Light -physics**  -recognise that light appears to travel in straight lines  - use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye  -explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes  -use the idea that light travels in straight lines to  -explain why shadows have the same shape as the objects that cast them  -planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary   -reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations  **Vocab**  Angle, Dark, Dim, Electricity, Emits, Light, Mirror, Opaque, Reflects, Shadows, Source, Surface, Torches  Translucent, Transparent |

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| **Year 6** | | |
| **Autumn 2** | **Spring 2** | **Summer 2** |
| **Changing Circuits - physics**  -associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit  -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  -planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary   -reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations  **Vocab**  Ammeter, Appliances, Battery, Bulb, Buzzer, Cell, Circuit, Component, Conductor, Device, Electricity, Energy, Fuel, Generate, Insulator, Mains, Power, Wires, Resistor, Resistance, Voltage, Brightness, Volume, Switches – open/closed, Series circuit, Circuit diagram, Motor, symbol | **Evolution and Inheritance - biology**  -recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago  -recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents  - identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution  -recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs  -reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations - identifying scientific evidence that has been used to support or refute ideas or arguments  **Vocab**  Ancestor, Biodiversity, Biome, Breeding, Extinct, Generation, Maladaptation, Mutation, Natural selection, Reproduction, Species, Survive, Theory, Change, Fossils, Offspring, Vary, Not identical | **Science Adventures – See separate document.** |

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| **Working Scientifically Vocab** | | |
| **Year 1 and 2** | **Year 3 and 4** | **Year 5 and 6** |
| Question, Answer, Observe, Observing, Equipment, Identify, Classify, Sort, Group, Record, Diagram, Chart, Map, Data, Compare, Contrast, Describe, Biology, Chemistry, Physics, Why…?, What…?, How…? | Research, Relevant, Enquiry, Comparative, Fair test, Systematic, Careful, Observation, Accurate, Measurements, Present, Drawings, Labelled, Keys, Bar charts, Tables, Explanation, Conclusion, Predictions, Data logger, Thermometer, Data, Gather, Differences, Similarities, Changes, Evidence, Improve, Secondary sources, Guides, Construct, Interpret, Results, Findings, Does…?,Do…? | Plan, Variables, Measurements, Accuracy, Precision, Repeat readings, Scientific diagrams, Scatter graphs, Line graphs, Pie charts, Hypothesis, Causal relations, Degree of trust, Support, Refute ideas. |

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| **Working Scientifically Key** | |
|  | Asking questions |
|  | Observing |
|  | Performing simple tests |
|  | Identifying and classifying |
|  | Suggest answers to questions |
|  | Recording data |