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| **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| **Plants**  \*Name a variety of common plants & trees  \*Identify and describe the basic structure of a variety of common flowering plants. | **Plants**  \*Observe and describe how seeds and bulbs grow.  \*Know that plants need water, light and temperature to grow. | **Plants**  \*Functions of different kinds of plants.  \*Requirements of survival.  \*How water is transported.  \*Life cycle: pollination, seed formation and seed dispersal. |  |  |  |
| **Animals including humans**  \*Name a variety of common animals:  fish, amphibians, reptiles, carnivores, herbivores, omnivores etc.  \*Describe and compare the structure of common animals.  \*Identify, name and draw parts of the human body and say which part is associated with each sense. | **Animal including humans**  \*Notice that animals and humans have offspring which grow into adults.  \*Understand the basic need of survival (water, food &air).  \*Understand the importance of exercise, food types and hygiene. | **Animals including humans**  \*Nutrition  \* Skeletons and muscles. | **Animals including humans**  \*Functions of the digestive system.  \* Teeth and their functions.  \*Construct and interpret a variety of food chains, identifying producers, predators and prey. | **Animals including humans**  \*Describe the changes as humans develop to old age. | **Animals including humans**  \*Identify and name main parts of the human circulatory system.  \*Describe the functions of the heart, blood vessels and blood.  \*Recognise the impact of diet, exercise, drug and lifestyle on their bodies.  \*How water and nutrients are transported within animals & humans. |
| **Everyday materials**  \*Different materials  \*Name variety of materials.  \*Describe the physical property of everyday materials.  \*Group materials | **Uses of everyday materials**  \*Identify and compare suitability of materials including wood, metal, plastic, glass, brick, rock, paper and cardboard.  \*Squashing, bending, twisting and stretching. |  |  | **Properties and changes of materials (States of matter below)**  \*Grouping of materials based on their properties.  \*Dissolve  \*Separation  \*Change of state  \*Reversible changes. |  |
|  | **Living things and their habitats**  \*Explore the difference between living, dead & never been alive.  \*Identify living things live in habitats.  \*Identify and name a variety of plants and animals.  \*Describe how animals obtain their food. |  | **Living things and their habitats**  \*Group living things in a variety of ways.  \*Use classification keys to group, identify and name living things in their local and wider environment.  \*Understand that environments change. | **Living things and their habitats**  \*Difference of life cycles of mammals, amphibians, an insect & a bird.  \*Life process of reproduction in some plants and animals. | **Living things and their habitats**  \*Describe how things are classified into groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals.  \*Give reasons for classifying plants & animals. |
| **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
|  |  | **Forces and magnets**  \*Different surfaces.  \*Contact between 2 forces.  \*Magnets attract and repel.  \*Magnetic materials.  \*2 poles. |  | **Forces**  \*Understanding gravity.  \*Understanding air resistance &water resistance that act between moving surfaces.  \*Mechanisms, levers, pulleys and gears. |  |
|  |  | **Light**  \*Understand that we need light to see.  \*Reflection  \*Dangers of sunlight.  \*Shadows  \*Shadow changes and patterns. |  |  | **Light**  \*Recognise that light travels in straight lines.  \*Understand that objects are seen because they give out or reflect light into the eye.  \*Explain that we see things because light travels from light source to our eyes or from light source to objects and then to our eyes.  \*Shadows have the same shape as the object that cast them. |
|  |  |  | **Electricity**  \*Construct circuits.  \*Identify whether or not a lamp will light in a 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.  \*Conductors and insulators. |  | **Electricity**  \*Understand that the voltage of cells will increase/decrease the sound of a buzzer or brightness of a lamp.  \*Give reasons for variations in how components function.  \*Use recognised symbols when representing a circuit in a diagram. |
| **Seasonal changes**  \*Observe changes across the 4 seasons.  \*Observe and describe weather. |  |  |  |  |  |
| **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
|  |  | **Rocks**  \*Group and compare.  \*Describe how fossils are formed.  \*Recognise that soils are made from rocks and organic matter. |  |  |  |
|  |  |  | **State of matter**  \*Compare and groups solids, liquids and gasses.  \*Change of state (heated or cooled).  \*Evaporation & condensation. | **State of matter**  \*Compare and group everyday materials based on their properties  \*Know some materials will dissolve into a liquid to form a solution  \*decide how mixtures might be separated inc filtering, sieving and evaporating  \*demonstrate dissolving, mixing and changes of state are reversible changes  \*explain some changes result in formation of new materials and this kind of change is not usually reversible |  |
|  |  |  | S**ound**  \*Identify how sounds are made.  \*Vibrations travel.  \*Patterns of pitch.  \*Patterns between volume  \*Understand that sounds get fainter due to distance. |  |  |
| **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
|  |  |  |  | **Earth and space**  \*Movement of the Earth and other planets.  \*Describe the movement of the Moon relative to the Earth.  \*Describe the Sun, Earth and Moon as approximately spherical bodies.  \*Explain day and night and the apparent movement of the sun across the sky. |  |
|  |  |  |  |  | **Evolution and inheritance**  \*Recognise that living things change over time.  \*Understand that fossils provide information about living things.  \*Recognise that living things produce offspring of the same kind.  \*Identify how animals and plants are adapted to suit their environment. |