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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.  |