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|  | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| FS2 | Comment and ask questions about the world and where they live. Talk about what they have observed such as plants, animals, natural and found objects. Talk about why things happen and work. Develop an understanding of growth, decay and changes over time. Show care and concern for living things and the environment. Looks closely at similarities, differences patterns and change. Know about similarities and differences in relation to places, objects, materials and living things. Talk about the features of their environments and how environment might vary from one another. Make observations of plants and animals and explain why some things occur and talk about changes | | | | | |
| Year 1 | **Seasonal Change and Everyday Materials**  Observe seasonal changes and weather.  Know four seasons, length of day describe weather.  Distinguish, identify, describe and compare a variety of everyday materials. | | **Seasonal Change and Plants**  Observe seasonal changes and weather.  Know four seasons, length of day describe weather.  Identify, name and describe common wild and garden plants, trees, and name parts of common flowering plants. | | **Seasonal Change and Animals inc Humans**  Observe seasonal changes and weather.  Know four seasons, length of day describe weather.  Identify and describe common animals including fish, amphibians, reptiles, birds and mammals.  Identify and name parts of the human body. | |
| Year 2 | **Uses of Everyday Materials**  Identify, compare, record, classify and discuss uses of everyday materials for a particular purpose.  Find out how shapes of solid objects made from some materials can be changed. | | **Plants Living Things and their habitats**  Find out, observe, record and describe how seeds and bulbs grow into mature plants. Plant Life Cycle. Food crops. Main parts of plants and trees.  Explore, compare, identify and describe things that are living, dead, and things that have never been alive.  Animals, habitats incl micro – habitats. Food chain. | | **Animals Including Humans**  Animals including humans have offspring that grow into adults. Observe, ask questions etc  Basic needs for animals and humans.  Survival, food, water, hygiene. Health, different types of food. | |
| Year 3 | **Forces and Magnets**  Compare, observe, describe, predict, record, sort. Movement on different surfaces. Without direct contact and contact between two objects. Friction, level of friction. Gravity.  Magnetic Field, Compass. Attract and repel. Two poles. | | **Light**  Need for light – absence of light is dark. Range of light sources. Sun – damage to eyes etc  Parts of eye.  Mirrors – reverse images.  Shadows, solid objects blocking light.  Properties of materials that reflect light well. | **Plants**  Identify and describe functions of different parts of plants. Plant life and growth in different plants. Nutrition and Reproduction of plants. Plants can make own food etc, fertilizer. Stages of plant life cycle, seed dispersal etc. | **Rocks**  Compare and group different kinds of rocks – properties, fossils, sols and organic matter.  Types of rock, sedimentary etc  Mary Anning – palaeontology. | **Animals inc humans**  Animals, humans need nutrition from what they eat. Diets and food groups.  Skeletons and muscles. |
| Year 4 | **Animals inc humans**  Simple functions of the digestive system and 4 main types of teeth in humans.  Carnivores and herbivores.  Food chains, identifying producers, predators and prey. | **States of Matter**  Compare and group materials, solids, liquids and gas.  Changes of state.  Evaporation, condensation.  Temperature changes. | **Electricity**  Uses of electricity, common appliances.  Electrical circuits – identifying basic parts. Switches, loops, insulators and conductors.  Power sources.  Electrical flow.  Mains, batteries. | | **Living things and their Habitats**  Grouping living things in a variety of ways.  Explore and classify living things in local and the wider environment.  Vertebrates and Invertebrates.  Endangered species.  Maps. | **Sound**  Identify how sounds are made – sound vibrations to the ear. Pitch and volume. Sound changes over distance – telephone.  Materials absorbing sound.  Patterns in sounds.  Links to musical instruments. |
| Year 5 | **Properties and changes of Materials**  Compare and group together everyday materials properties including hardness, solubility, transparency, conductivity and response to magnets.  Exploring reversible and irreversible changes.  Effective materials.  Impact of chemical changes on our lives. | | **Forces**  Gravity – Earth.  Air resistance, water resistance and friction.  Mechanisms – levers, pulleys, gears etc  Object mass.  Balanced and unbalanced forces.  Streamlined shapes. | **Earth and Space**  Movement of Earth, Planets, Solar System.  Moon, Orbit, day and night. Sundials.  Clocks.  Planetary movement. | **All Living things and Their habitats**  Lify Cycles of mammal, amphibian, insect and bird.  Sexual reproduction.  Life processes of reproduction in some plants and animals.  Flowers, pollination.  Compare life cycles of plants and animals from local environment and wider environment (rainforests, oceans, prehistoric etc) | **Animals inc humans**  Describe changes as humans develop into old age.  Babies’ growth. Gestation period of animals and humans.  Height. Puberty.  Life Expectancy. |
| Year 6 | **Evolution and Inheritance**  Charles Darwin.  Mary Anning.  Advantages and disadvantages of evolution. Physical adaptations eg gills, lungs. Suited to environment.  Living things have changed over time. Fossils provide information.  Offspring – not always identical to their parents. | **Light**  Light, eyes, how we see, shadows. Light sources, position of sun linked to shadows.  Speed of light.  Translucent and opaque.  How a periscope works. | **Living things and their habitats**  Living things classified into  broad groups. Characteristics of micro – organisms, plants and animals.  Use of classification systems.  Carl Linnaeus.  Research unfamiliar plants and animals. | **Electricity**  Brightess of lamps, use of buzzers, loudness of buzzers. Voltage of cells used in circuits.  Plan and conduct an electrical investigation.  Increase and decrease of voltage.  Use of correct symbols.  Changes and uses of electricity of time. | **Animals Including Humans**  Keeping a healthy body. Impact of diet, exercise, drugs and lifestyle.  Human circulatory system, describe functions of heart, blood vessels and blood.  Know and name key parts of vital organs – mainly lungs and hearts. How nutrients and water are transported – human and animal.  Digestive System.  Explore work of scientists and research  About relationship between diet, exercise, drugs and lifestyle and health. | |