

|  |  |  |
| --- | --- | --- |
|  | **Key Stage 1** | |
| **LEARNING PROGRESSION** | |
| **Plants** | I can identify and name a variety of common wild and garden plants, including deciduous and evergreen. | I can observe and describe how seeds and bulbs grow into mature plants. |
| I can identify and describe the basic structure of a variety of common flowering plants, including trees. | I can find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. |
| **Animals Including Humans** | I can identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. | I can identify that animals, including humans, have offspring which grow into adults. |
| I can identify and name a variety of common animals that are carnivores, herbivores and omnivores. | I can find out about and describe the basic needs of animals, including humans, for survival (water, food and air). |
| I can compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets). | I can describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. |
| I can identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. |  |



|  |  |  |
| --- | --- | --- |
|  | **Key Stage 1** | |
| **LEARNING PROGRESSION** | |
| **Everyday Materials** | I can distinguish between an object and the material from which it is made. | I can identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. |
| I can identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock. | I can identify how the shapes of solid objects made from some materials can be changed by  squashing, bending, twisting and stretching. |
| I can describe the simple physical properties of a variety of everyday materials. |  |
| I can compare and group together a variety of everyday materials on the basis of their simple physical properties. |  |

|  |  |  |
| --- | --- | --- |
|  | **Key Stage 1** | |
| **LEARNING PROGRESSION** | |
| **Seasonal Changes** | I can observe changes across the four seasons. |  |
| I can observe and describe weather associated with the seasons and how day length varies |  |
| **Living Things and Their Habitats** |  | I can explore and compare the differences between things that are living, dead, and things that have never been alive. |
|  | I can 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. |
|  | I can identify and name a variety of plants and animals in their habitats, including micro-habitats. |
|  | I can 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. |

|  |  |
| --- | --- |
|  | **Key Stage 1** |
| **LEARNING PROGRESSION** |
| **Working Scientifically** | I can ask simple questions and recognise that they can be answered in different ways. |
| I can observe closely, using simple equipment. |
| I can perform simple tests. |
| I can identify and classify. |
| I can use my observations and ideas to suggest answers to questions. |
| I can gather and record data to help in answering questions. |

|  |  |  |
| --- | --- | --- |
|  | **Key Stage 2** | |
| **LEARNING PROGRESSION** | |
| **Animals Including Humans** | I can 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. | I can describe the simple functions of the basic parts of the digestive system in humans. |
| I can identify that humans and some other animals have skeletons and muscles for support, protection and movement. | I can identify the different types of teeth in humans and their simple functions. |
|  | I can construct and interpret a variety of food chains, identifying producers, predators and  prey. |
| **Rocks** | I can compare and group together different kinds of rocks on the basis of their appearance and simple physical properties. |  |
| I can describe in simple terms how fossils are formed when things that have lived are trapped within rock. |  |
| I can recognise that soils are made from rocks and organic matter. |  |

|  |  |  |
| --- | --- | --- |
|  | **Key Stage 2** | |
| **LEARNING PROGRESSION** | |
| **Light** | I can recognise that we need light in order to see things and that dark is the absence of light. |  |
| I can notice that light is reflected from surfaces. |  |
| I can recognise that light from the sun can be dangerous and that there are ways to protect my eyes |  |
| I can recognise that shadows are formed when the light from a light source is blocked by an opaque object. |  |
| I can find patterns in the way that the size of shadows change. |  |
| **Plants** | I can identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers. |  |
| I can 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. |  |
| I can investigate the way in which water is transported within plants. |  |
| I can explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. |  |

|  |  |  |
| --- | --- | --- |
|  | **Key Stage 2** | |
| **LEARNING PROGRESSION** | |
| **Forces and Magnets** | I can compare how things move on different surfaces. |  |
| I can notice that some forces need contact between two objects, but magnetic forces can act at a distance. |  |
| I can observe how magnets attract or repel each other and attract some materials and not others. |  |
| I can 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. |  |
| I can describe magnets as having two poles. |  |
| I can predict whether two magnets will attract or repel each other, depending on which poles are facing. |  |

|  |  |  |
| --- | --- | --- |
|  | **Key Stage 2** | |
| **LEARNING PROGRESSION** | |
| **Living Things and Their Habitats** |  | I can recognise that living things can be grouped in a variety of ways. |
|  | I can explore and use classification keys to help group, identify and name a variety of living things in my local and wider environment. |
|  | I can recognise that environments can change and that this can sometimes pose dangers to living things. |
| **States of Matter** |  | I can compare and group materials together, according to whether they are solids, liquids or gases. |
|  | I can 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). |
|  | I can identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature. |

|  |  |  |
| --- | --- | --- |
|  | **Key Stage 2** | |
| **LEARNING PROGRESSION** | |
| **Sound** |  | I can identify how sounds are made, associating some of them with something vibrating. |
|  | I can recognise that vibrations from sounds travel through a medium to the ear. |
|  | I can find patterns between the pitch of a sound and features of the object that produced it. |
|  | I can find patterns between the volume of a sound and the strength of the vibrations that produced it. |
|  | I can recognise that sounds get fainter as the distance from the sound source increases. |

|  |  |  |
| --- | --- | --- |
|  | **Key Stage 2** | |
| **LEARNING PROGRESSION** | |
| **Electricity** |  | I can identify common appliances that run on electricity. |
|  | I can construct a simple series electrical circuit, identifying and naming its basic parts,  including cells, wires, bulbs, switches and buzzers. |
|  | I can 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. |
|  | I can recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit. |
|  | I can recognise some common conductors and insulators, and associate metals with being good conductors. |

|  |  |
| --- | --- |
|  | **Key Stage 2** |
| **LEARNING PROGRESSION** |
| **Working Scientifically** | I can ask relevant questions and use different types of scientific enquiries to answer them. |
| I can set up simple practical enquiries, comparative and fair tests. |
| I can make systematic and careful observations and, where appropriate, take accurate measurements using standard units, use a range of equipment, including thermometers and data loggers. |
| I can gather, record, classify and present data in a variety of ways to help in answering questions. |
| I can record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables. |
| I can report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. |
| I can use results to come to simple conclusions, make predictions for new values, suggest improvements and raise further questions. |
| I can identify differences, similarities or changes related to simple scientific ideas and processes. |
| I can use straightforward scientific evidence to answer questions or to support my findings. |