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|  | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 2 | Summer 2 |
| Year 1 Chaffinch | Living Things and Their Habitats | Materialsdistinguish between an object and the material from which it is madeidentify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rockdescribe the simple physical properties of a variety of everyday materialscompare and group together a variety of everyday materials on the basis of their simple physical properties | Animals including Humansidentify and name a variety of common animals including fish, amphibians, reptiles, birds and mammalsidentify and name a variety of common animals that are carnivores, herbivores and omnivoresdescribe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets)identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense | Plantsidentify and name a variety of common wild and garden plants, including deciduous and evergreen treesidentify and describe the basic structure of a variety of common flowering plants, including trees | Seasonal Changesobserve changes across the 4 seasonsobserve and describe weather associated with the seasons and how day length varies | Famous Scientists and Investigative Workasking simple questions and recognising that they can be answered in different waysobserving closely, using simple equipmentperforming simple testsidentifying and classifyingusing their observations and ideas to suggest answers to questionsgathering and recording data to help in answering questions |
| Year 2 Chaffinch | Living Things and Their Habitatsexplore and compare the differences between things that are living, dead, and things that have never been aliveidentify 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 otheridentify and name a variety of plants and animals in their habitats, including microhabitatsdescribe 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 | Materialsidentify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular usesfind out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching | Animals including Humansnotice that animals, including humans, have offspring which grow into adultsfind 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 | Plantsobserve and describe how seeds and bulbs grow into mature plantsfind out and describe how plants need water, light and a suitable temperature to grow and stay healthy | Seasonal Changes | Famous Scientists and Investigative Workasking simple questions and recognising that they can be answered in different waysobserving closely, using simple equipmentperforming simple testsidentifying and classifyingusing their observations and ideas to suggest answers to questionsgathering and recording data to help in answering questions |
| Year 2 Kingfisher | Living Things and Their Habitatsexplore and compare the differences between things that are living, dead, and things that have never been aliveidentify 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 otheridentify and name a variety of plants and animals in their habitats, including microhabitatsdescribe 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 | Materialsidentify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular usesfind out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching | Animals including Humansnotice that animals, including humans, have offspring which grow into adultsfind 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 | Plantsobserve and describe how seeds and bulbs grow into mature plantsfind out and describe how plants need water, light and a suitable temperature to grow and stay healthy | Famous Scientists and Investigative Workasking simple questions and recognising that they can be answered in different waysobserving closely, using simple equipmentperforming simple testsidentifying and classifyingusing their observations and ideas to suggest answers to questionsgathering and recording data to help in answering questions |
| Year 3 Kingfisher | Living Things and Their Habitats | Materials | Animals including Humansidentify 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 eatidentify that humans and some other animals have skeletons and muscles for support, protection and movement | Plantsidentify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowersexplore 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 plantinvestigate the way in which water is transported within plantsexplore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal | Famous Scientists and Investigative Workasking relevant questions and using different types of scientific enquiries to answer themsetting up simple practical enquiries, comparative and fair testsmaking systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggersgathering, recording, classifying and presenting data in a variety of ways to help in answering questionsrecording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tablesreporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusionsusing results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questionsidentifying differences, similarities or changes related to simple scientific ideas and processesusing straightforward scientific evidence to answer questions or to support their findings. |
| Year 4 Owl | Living Things and Their Habitatsrecognise that living things can be grouped in a variety of waysexplore and use classification keys to help group, identify and name a variety of living things in their local and wider environmentrecognise that environments can change and that this can sometimes pose dangers to living things | States of Mattercompare and group materials together, according to whether they are solids, liquids or gasesobserve 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 | Animals including Humansdescribe the simple functions of the basic parts of the digestive system in humansidentify the different types of teeth in humans and their simple functionsconstruct and interpret a variety of food chains, identifying producers, predators and prey | Electricityidentify common appliances that run on electricityconstruct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzersidentify 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 batteryrecognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuitrecognise some common conductors and insulators, and associate metals with being good conductors | Soundidentify how sounds are made, associating some of them with something vibratingrecognise that vibrations from sounds travel through a medium to the earfind patterns between the pitch of a sound and features of the object that produced itfind patterns between the volume of a sound and the strength of the vibrations that produced itrecognise that sounds get fainter as the distance from the sound source increases | Famous Scientists and Investigative Workasking relevant questions and using different types of scientific enquiries to answer themsetting up simple practical enquiries, comparative and fair testsmaking systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggersgathering, recording, classifying and presenting data in a variety of ways to help in answering questionsrecording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tablesreporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusionsusing results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questionsidentifying differences, similarities or changes related to simple scientific ideas and processesusing straightforward scientific evidence to answer questions or to support their findings. |
| Year 5 Kestrel | Living Things and Their Habitatsdescribe the differences in the life cycles of a mammal, an amphibian, an insect and a birddescribe the life process of reproduction in some plants and animals | Properties and Changes of Materialscompare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnetsknow that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solutionuse knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporatinggive reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plasticdemonstrate that dissolving, mixing and changes of state are reversible changesexplain 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 | Animals including Humansdescribe the changes as humans develop to old age | Earth and Spacedescribe the movement of the Earth and other planets relative to the sun in the solar systemdescribe the movement of the moon relative to the Earthdescribe the sun, Earth and moon as approximately spherical bodiesuse the idea of the Earth’s rotation to explain day and night and the apparent movement of the sun across the sky | Forces and Magnetsexplain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling objectidentify the effects of air resistance, water resistance and friction, that act between moving surfacesrecognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect | Famous Scientists and Investigative Workplanning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessarytaking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriaterecording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphsusing test results to make predictions to set up further comparative and fair testsreporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentationsidentifying scientific evidence that has been used to support or refute ideas or arguments |
| Year 6 Eagle | Living Things and Their Habitatsdescribe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animalsgive reasons for classifying plants and animals based on specific characteristics | Lightrecognise that light appears to travel in straight linesuse the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eyeexplain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyesuse the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them | Animals including Humansidentify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and bloodrecognise the impact of diet, exercise, drugs and lifestyle on the way their bodies functiondescribe the ways in which nutrients and water are transported within animals, including humans | Electricityassociate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuitcompare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switchesuse recognised symbols when representing a simple circuit in a diagram | Evolution and Inheritancerecognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years agorecognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parentsidentify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution | Famous Scientists and Investigative Workplanning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessarytaking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriaterecording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphsusing test results to make predictions to set up further comparative and fair testsreporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentationsidentifying scientific evidence that has been used to support or refute ideas or arguments |