Can they identify and name a variety of common animals? (birds, fish, amphibians, reptiles, mammals, invertebrates)

Can they identify and name a variety of common animals that are carnivores, herbivores and omnivores?

Can they classify animals by what they eat? (carnivore, herbivore, omnivore)

Can they compare the bodies of different animals?

Can they point out some of the differences between different animals?

Can they sort photographs of living things and non-living things?

Can they describe how an animal is suited to its environment?

Can they name the parts of the human body that they can see?

Can they draw & label basic parts of the human body?

Can they identify the main parts of the human body and link them to their senses?

Can they name the parts of an animal's body?

Can they name a range of domestic animals?

Can they explain why a material might be useful or a specific job?

Can they name some different everyday materials? e.g. wood, plastic, metal, water and rock

Can they sort materials into groups by a given criteria?

Can they explain how solid shapes can be changed by squashing, bending, twisting and stretching?

Can they distinguish between an object and the material from which it is made?

Can they describe materials using their senses?

Can they describe materials using their senses, using specific scientific words?

Can they explain what material objects are made from?

Can they identify and name a range of common plants and trees?

Can they describe the parts of a plant (roots, stem, leaves, flowers)?

Can they recognise deciduous and evergreen trees?

Can they name the trunk, branches and root of a tree?

Can they observe changes across the four seasons?

Can they observe and describe weather associated with the seasons?

Can they name the four seasons in order?

Can they observe and describe how day length varies?

Can they explain why animals have offspring which grow into adults?

Can they explain the basic needs of animals, including humans for survival? (Water, food, air)

Can they describe why exercise, balanced diet and hygiene are important for humans?

Can they describe what animals need to survive?

Can they explain that animals grow and reproduce?

Can they describe the life cycle of some living things? (e.g. egg, chick, chicken)

Can they describe the simple physical properties of a variety of everyday materials?

Can they compare and group together a variety of materials based on their simple physical properties?

Can they describe whether something is living, dead or non-living?

Can they describe some of the life processes common to plants and animals, including humans?

Can they match certain living things to the habitats they are found in?

Can they describe some of the life processes common to plants and animals, including humans?

Can they explain the differences between living and non-living things?

Can they describe how a habitat provides for the basic needs of things living there?

Can they describe a range of different habitats?

Can they observe and describe how seeds and bulbs grow into mature plants?

Can they find out & describe how plants need water, light and a suitable temperature to grow and stay healthy?

Can they describe what plants need to survive?

Can they identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper, cardboard for particular uses?

Can they explore how the shapes of solid objects can be changed? (Squashing, bending, twisting, stretching)

Can they find out about people who developed useful new materials? (John Dunlop, Charles Macintosh, John McAdam)

Can they explain how things move on different surfaces?

Can they identify common appliances that run on electricity?

Can they identify and name the basic parts in a series circuit, including cells, wires, bulbs, switches and buzzers?

Can they 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?

Can they recognise that a switch opens and closes a circuit?

Can they recognise some common conductors and insulators?

Can they associate a switch opening with whether or not a lamp lights in a simple series circuit?

Can they associate metals with being good conductors?

Can they construct a simple series electric circuit?

Can they identify that animals, including humans, cannot make their own food: they get nutrition from what they eat?

Can they describe and explain the skeletal system of a human?

Can they explain the importance of a nutritionally balanced diet?

Can they describe and explain the muscular system of a human?

Can they describe how nutrients, water and oxygen are transported within animals and humans?

Can they compare how things move on different surfaces?

Can they notice that some forces need contact between two objects, but magnetic forces can act at a distance?

Can they observe how some magnets attract or repel each other?

Can they compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet?

Can they describe magnets have having two poles (N & S)?

Can they predict whether two magnets will attract or repel each other depending on which poles are facing?

Can they observe that magnetic forces can be transmitted without direct contact?

Can they classify which materials are attracted to magnets and which are not?

Can they identify some magnetic materials?

Can they recognise that dark is the absence of light?

Can they notice that light is reflected from surfaces?

Can they recognise that light from the sun can be dangerous and that there are ways to protect their eyes?

Can they recognise that shadows are formed when the light from a light source is blocked by a solid object?

Can they find patterns in the way that the size of shadows changes?

Can they recognise that they need light in order to see things?

Can they identify and describe the functions of different parts of flowering plants (roots, stem/trunk, leaves and flowers)?

Can they explore the requirement of plants for life and growth (air, light, water, nutrients from soil, and room to grow)?

Can they investigate the way in which water is transported within plants?

Can they explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal?

Can they explain how they vary from plant to plant?

Can they compare and group together different rocks on the basis of their appearance and simple physical properties?

Can they describe in simple terms how fossils are formed when things that have lived are trapped within rock?

Can they recognise that soils are made from rocks and organic matter?

Can they describe and explain how different rocks can be useful to us?

Can they describe and explain the differences between sedimentary and igneous rocks, considering the way they are formed?

Can they associate some sounds with something vibrating?

Can they recognise how vibrations from sound travel through a medium to an ear?

Can they find patterns between the pitch of a sound and features of the object that produce it?

Can they find patterns between the volume of the sound and the strength of the vibrations that produced it?

Can they recognise that sounds get fainter as the distance from the sound source increases?

Can they describe a range of sounds and explain how they are made?

Can they compare sources of sound and explain how the sounds differ?

Can they explain how to change a sound (louder/softer)?

Can they explain how you could change the pitch of a sound?

Can they investigate how different materials can affect the pitch and volume of sounds?

Can they compare and group materials based on their states of matter, ie, liquid, solid or gas?

Can they explain what happens to materials when they are heated or cooled?

Can they identify the part that evaporation and condensation has in the water cycle?

Can they measure or research the temperature at which different materials change state in degrees Celsius?

Can they use measurements to explain changes to the state of water?

Can they associate the rate of evaporation with temperature?

Can they identify and name the basic parts of the human digestive system?

Can they identify the simple function of different types of teeth in humans?

Can they construct and interpret a variety of food chains, identifying producers, predators and prey?

Can they describe the function of the organs of the human digestive system?

Can they compare the teeth of herbivores and carnivores?

Can they explain what a simple food chain shows?

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Can they associate metals with being good conductors?

Can they construct a simple series electric circuit?

Can they recognise that living things can be grouped in a variety of ways?

Can they explore and use a classification key to group a variety of living things? (plants, vertebrates, invertebrates)

Do they recognise that environments can change and this can sometimes pose a danger to living things?

Can they compare the classification of common plants and animals to living things found in other places? (under the sea, prehistoric)

Can they describe the changes as humans develop to old age?

Describe the movement of the earth and other planets relative to the sun in the solar system

Can they describe and explain the movement of the Moon relative to the Earth?

Can they describe the sun, earth and moon as approximately spherical bodies?

Can they use the idea of the earth's rotation to explain day and night and the

apparent movement of the sun across the sky?

Can they explain how seasons and the associated weather is created?

Can they explain that unsupported objects fall towards the earth because of the force of gravity acting between the earth and the falling object?

Can they identify the effects of air resistance, water resistance and friction that act between moving surfaces?

Can they recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect?

Can they describe the differences in the life cycles of a mammal, an amphibian, insects and a bird?

Can they describe the life cycles of common plants?

Can they explore the work of well known naturalists and animal behaviourists? (David Attenborough and Jane Goodall)

Compare and group together everyday materials on the basis of their properties, including hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets?

Can they explain how some materials dissolve in liquid to form a solution?

Can they use their knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving, evaporating?

Can they give reasons, base done evidence for comparative and fair tests for the particular uses of everyday materials, including metals, wood and plastic?

Can they demonstrate that dissolving, mixing and changes of state are reversible changes?

Can they explain 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?

Can they describe how to recover a substance from a solution?

Can they describe changes using scientific words? (evaporation, condensation)

Can they use the terms 'reversible' and 'irreversible'?

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Can they describe how to recover a substance from a solution?

Can they describe changes using scientific words? (evaporation, condensation)

Can they use the terms 'reversible' and 'irreversible'?

Can they identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood?

Can they recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function?

Describe the ways in which nutrients and water are transported within animals, including humans

Can they use recognised symbols when representing a simple circuit in a diagram?

Can they compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers, the on/off position of switches?

Can they identify and name the basic parts of a simple electric series circuit? (cells, wires, bulbs, switches, buzzers)

Can they recognise that living things have changed over time and that fossils provide information about living things that inhabited the earth millions of years ago?

Can they recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents?

Can they identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution?

Can they explain the process of evolution and describe the evidence for this?

Can they recognise that light appears to travel in straight lines?

Can they use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye?

Can they explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes?

Can they use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them?

Can they describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences including microorganisms, plants and animals?

Can they give reasons for classifying plants and animals based on specific characteristics?