

Autumn 1: Re Good to Yourself

Autumn 2: People who cared that

made a Difference.

Animals including Humans -

Humans

parts of the human body and say which part

of the body is associated with each sense

Spring: The Great Fire of London

Materials

Distinguish between an object and the material from which it is made

Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock

Describe the simple physical properties of a variety of everyday materials

Compare and group together a variety of everyday materials on the basis of their simple physical properties.

Autumn 1: Free at Last. - Martin Luther King Jr

Describe the simple functions of the basic parts of the digestive system in humans

Identify the different types of teeth in humans and their simple functions

Autumn 2: Rotten Romans

Summer 1: How have seaside holidays changed?

Seasons and Weather & Plants

Observe changes across the four seasons

Observe and describe weather associated with the seasons and how day length varies.

Identify and name a variety of common wild and garden plants including deciduous and evergreen trees

Identify and describe the basic structure of a variety of common flowering plants, including trees.

Summer 2: is any place on earth too hot or too cold for animals to live?

Animals Including Humans - Animals

Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals

Identify and name a variety of common animals that are carnivores, herbivores and omnivores

Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals,

Y4

Spring: Back in the 1800s.

Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for

from some materials can be changed by squashing, bending, twisting and stretching

> 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 Identify and name a variety of plants and animals in their habitats, including microhabitats

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.

Summer 1: Wonderful Weather around the World.

Summer 2: Treasuring Our World

Weather & Plants

Observe and describe how seeds and bulbs grow into mature plants

Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.

Explore and compare the differences between things that are living, dead, and things that have never been alive

Autumn 1: Aspiring to Inspire

Inspirational Women

Animals Including Humans

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

Identify that humans and some other animals have skeletons and muscles for support, protection and

Autumn 2: The Mayans

Forces and Magnets

Compare how things move on different surfaces

Notice that some forces need contact between two objects, but magnetic forces can act at a distance

Observe how magnets attract or repel each other and attract some materials and not others

Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic material

Find out how the shapes of solid objects made

Summer: Tornados, Tsunamis & Torrential Rain.

Science Curriculum Road Map

Autumn 1: Amazing Me.

Autumn 2: People that Changed How we live today

Mary Seacole

Animals Including Humans

Notice that animals, including humans, have offspring which grow into adults

Find out about and describe the basic needs of animals, including humans, for

Describe the importance for humans of exercise, eating the right amounts of

different types of food, and hygiene.

Recognise that they need light in order to see things and that dark is the absence of

Notice that light is reflected from surfaces

Recognise that light from the sun can be dangerous and that there are ways to

Recognise that shadows are formed when the light from a light source is blocked by an opaque object

Find patterns in the way that the size of shadows change

Plants

Identify and describe the functions of different parts of flowering plants; roots. stem/trunk, leaves and flowers

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

nmer: From Earth to the Stars- Our Extreme

Living Things and their Habitats

Describe the differences in the life cycles of a mammal.

an amphibian, an insect and a bird

cribe the life process of reproduction in some plants

Rocks

Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties

Describe in simple terms how fossils are formed when things that have lived are trapped within rock

Spring: Ancient Egyptians.

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

form a solution, and describe how to recover a substance from a solution

Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating

Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic

Demonstrate that dissolving, mixing and changes of state are reversible changes

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 Autumn: WW2- Our Country, Our World.

Role of Women

Animals including Humans Light & Electricity

Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood

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

ociate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit

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

Use recognised symbols when representing a simple circuit in a diagram.

Recognise that light appears to travel in straight lines

Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eve

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

Use the idea that light travels in straight lines to explain why shadows have the same shape as the

Summer 1: White Cloud- A Great Leader?

Living Things and Their Habitats

Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals

Give reasons for classifying plants and animals based on specific

Spring: To Boldly Go!

Evolution and Inheritance

Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit

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

Use recognised symbols when representing a simple circuit in a diagram.

Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature. Identify how sounds are made, associating some of them with something vibrating Recognise that vibrations from sounds travel through a medium to the ear Find natterns between the nitch of a sound and features of the object that produced it Find patterns between the volume of a sound and the strength of the vibrations that Recognise that sounds get fainter as the distance from the sound source increases identify common appliances that run on electricity construct a simple series electrical circuit, identifying and naming its basic parts, including identify whether or not a lamp will light in a simple series circuit, based on whether or not

Summer 1: Anglo Saxons & Scots

produced it

Spring: Myths & Legends

States of Matter. Sound & Electricity

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)

Summer 2: Who is the Problem?

Living Things and Their Habitats

Recognise that living things can be grouped in a variety of ways

Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment

Recognise that environments can change and that this can sometimes pose

Autumn 1: My Community &

Describe the changes as humans

Oscar Romero

Autumn 2: The Invaders

Animals Including Humans

develop to old age