

<u>Light-</u> the form of energy that makes it possible for the eye to see

<u>Light source</u>— anything that makes light

Dark-having little or no light

Absence of light—there is no light

<u>Transparent</u> -letting light pass through

<u>Translucent-</u>letting only some light through

<u>Opaque-</u> not letting light pass through

<u>Shiny-</u> reflecting or glowing with light

Matt-dull without s shine

Surface- top layer of something

<u>Shadow-</u> the dark image cast on some surface by a person or thing blocking the light

Reflect- to throw back from a surface

<u>Mirror-</u> a smooth surface that reflects an image

Sunlight-the light of the sun

<u>Dangerous-</u>likely to cause harm

Light



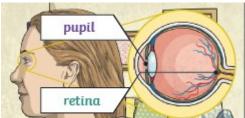
What I should already know?

The basic parts of the human body and say which part of the body is associated with each sense. (Year 1 - Animals, including humans)

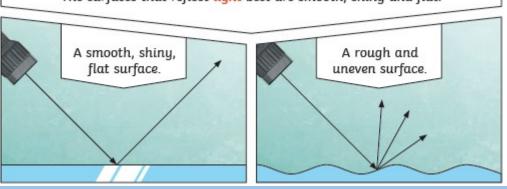
Key learning points.

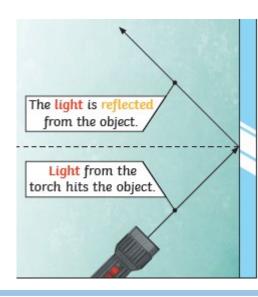






The surfaces that reflect light best are smooth, shiny and flat.







<u>Nutrition-</u> process of eating and using the nutrients in food for living and growing

<u>Nutrients-</u> something in food that helps people:

Carbohydrate, protein, fats, vitamins, minerals, water, fibre

<u>Sugars-</u> a sweet substance in a crystal form that comes mainly from sugar cane and sugar beets

<u>Skeleton-</u> the inner framework of bones and cartilage in vertebrate animals

<u>Bones-</u> the hard tissue that forms the skeleton

<u>Muscles-</u> tissue in the body of animals and humans that moves parts of the body

Support – to hold up

<u>Protect-</u> to defend or keep safe

Move-to change position or place

Skull- the bony framework of the head

<u>Ribs-</u> set of bones that curve from the spine around the chest

Spine- the backbone

<u>Joints</u>- a place or point where two or more parts come together or are connected

Animals Including Humans SCIENCE

What I should already know?

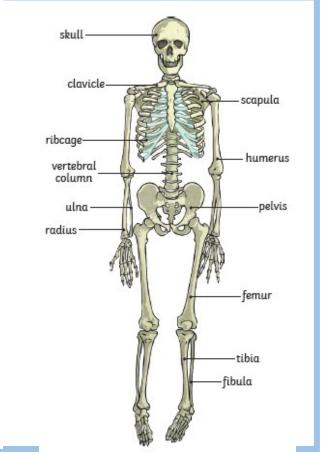
Year 1 Animals Including Humans

• A variety of common animals including fish, amphibians, reptiles, birds and mammals. A variety of common animals that are carnivores, herbivores and omnivores. The structure of a variety of common animals

Year 2 Animals Including Humans

• The basic needs of animals, including humans, for survival (water, food and air). The importance for humans of exercise, eating the right amounts of different types of food, and hygiene.

Nutrient	Found in (examples)	What it does/they do
carbohydrates	PASTA PASTA PASTA	provide <mark>energy</mark>
protein	TO CHASE!	helps growth and repair
fibre	PAEMIUM WHOLEHEAL	helps you to digest the food that you have eaten
fats	PLAIN NUTS	provide <mark>energy</mark>
vitamins	PLAIN NUTS	keep you <mark>healthy</mark>
minerals		keep you <mark>healthy</mark>
water		moves nutrients around your body and helps to get rid of waste



Rock- a solid mass made up of minerals

Stone- hard matter formed from mineral and earth material

<u>Pebble-</u> a small, smooth rock rounded by the action of water

Boulder- a large, rounded rock

Grain- any tiny, hard piece of something

<u>Crystals</u>—solids where the molecules fit together in a repeating pattern

Hard- not soft; solid; firm; tough

Soft-easy to bend or to shape

Texture- the feel or look of a surface

Absorb water—to take in or soak up.

Soil- the top layer of the earth's surface

<u>Fossil-</u> the remains or trace of a living animal or plant from a long time ago

<u>Marble</u>- a kind of stone that can be cut and polished to a hard, shiny surface

Chalk- a soft, white limestone

<u>Granite</u>- a hard stone made by the activity of volcanoes

Sandstone-rock that is formed mostly of sand

<u>Slate-</u> a rock that tends to split in smooth layers

Soil— the top layer of the earth's surface

<u>Peat-</u> soil from a wet area that is made up of decayed plants



Rocks and Soils



What I should already know?

Year 1 Everyday Materials

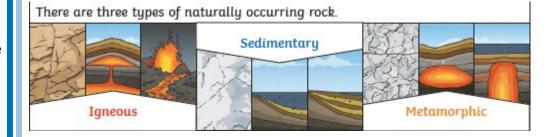
• The difference between an object and the material from which it is made. A variety of everyday materials, including wood, plastic, glass, metal, water, and rock. The simple physical properties of a variety of everyday materials. A variety of everyday materials on the basis of their simple physical properties.

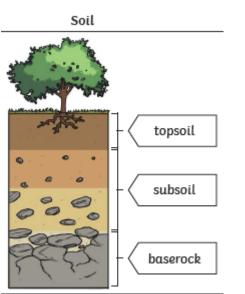
Year 2 Everyday Materials

• The suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.

Key learning points.

Natural Rocks			Human-Made
Igneous	Sedimentary	Metamorphic	Rocks
Obsidian	Chalk	Marble	Brick
Granite	Sandstone	Quartzite	Concrete
A	The same of the sa		
Basalt	Limestone	Slate	Coade Stone







<u>Photosynthesis</u>- the process by which a green plant uses sunlight to change water and carbon dioxide into food for itself

<u>Pollen-</u> the fine, yellow powder made by a flowering plant

<u>Insect-</u> a small animal whose body is divided into three parts

Wind pollination—pollen moves in the wind to another plant

<u>Seed formation</u>— the last step of the reproduction in plants

<u>Seed dispersal</u>—the movement of seeds away from the parent plant.

wind dispersal, animal dispersal, water dispersal

Plants

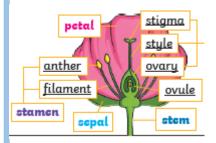


What I should already know?

- How seeds and bulbs grow into mature plants.
- How plants need water, light and a suitable temperature to grow and stay healthy.

Year 2 Plants

Key learning points.

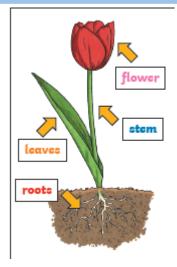


Seed Dispersal Seeds can be dispersed by:







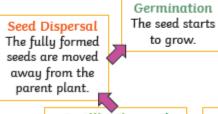


How Water Moves through a Plant

- The roots absorb water from the soil.
- The stem transports water to the leaves.
- Water evaporates from the leaves.
- This evaporation causes more water to be sucked up the stem.

The water is sucked up the stem like water being sucked up through a straw.

Life Cycle of a Flowering Plant



to grow.

and Flowering
The plant grows
bigger and
forms a flower.

Fertilisation and Seed Formation

The pollen joins with an <u>ovule</u> and a seed starts to form.

Pollination

Growing

Pollen from the <u>Janther</u> lands on the <u>stigma</u> and travels down the <u>style</u>.



Force- a push or a pull on an object

<u>Push-</u> to use pressure against in order to move

<u>Pull-</u> to take hold of (something) and use force to bring it nearer

<u>Twist-</u> to bend or turn (a single thing) in opposite directions

<u>Contact force</u>—two or more objects touch

<u>Non-contact force</u> a force that affects something from a distance (gravity)

<u>Magnetic force</u>— the area around a magnet where there is a force.

<u>Magnet-</u> an object that has the power to pull items made of iron toward itself.

Strength—how strong a magnet is

Repel- to ward off or force back

<u>Magnetic material</u> objects with magnetic qualities

Metal-minerals like iron or lead

<u>Iron-</u> a heavy grey metal

Steel- a hard, strong metal made from iron mixed with carbon

<u>Poles (North pole/ South pole)</u>- either end of a planet's axis.

Types of magnets:

Bar magnet, Ring magnet, Button magnet, Horseshoe magnet

Forces and Magnets



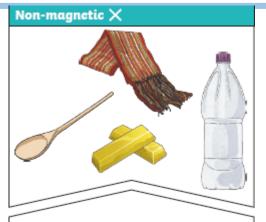
What I should already know?

Grass

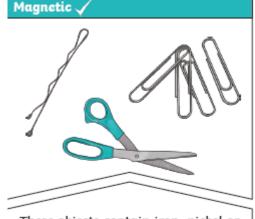
How the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. (Year 2 - Uses of everyday materials)

Key learning points. **PUSH** PULL Like poles repel. Opposite poles attract. A magnetic field is invisible. You can see the magnetic field The needle in a compass is a here though. This is what magnet. A compass always happens when iron filings are points north-south on Earth. placed on top of a piece of paper with a magnet underneath. The driving force Friction pushes on pushes the bicycle, the bicycle, slowing making it move. it down. Gravel Road

Sand



These objects do not contain iron, nickel or cobalt.



These objects contain iron, nickel or cobalt. Not all metals are magnetic.