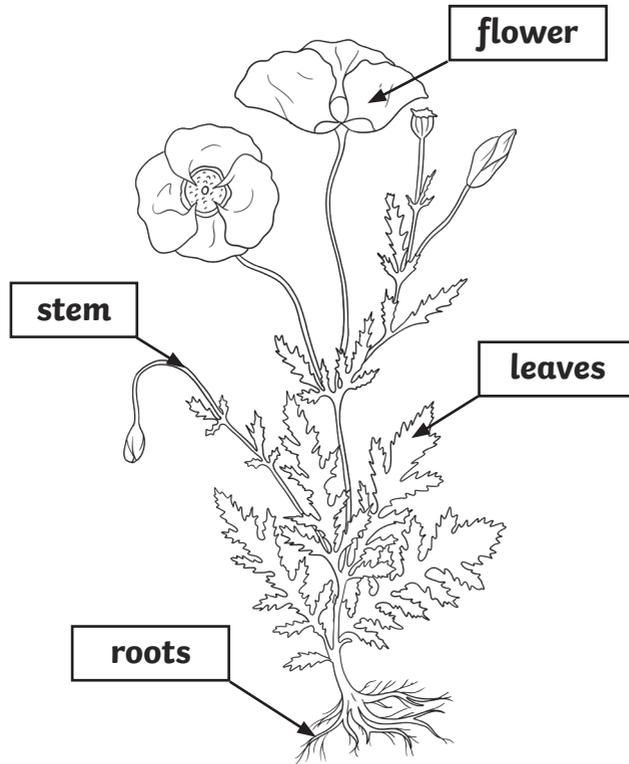


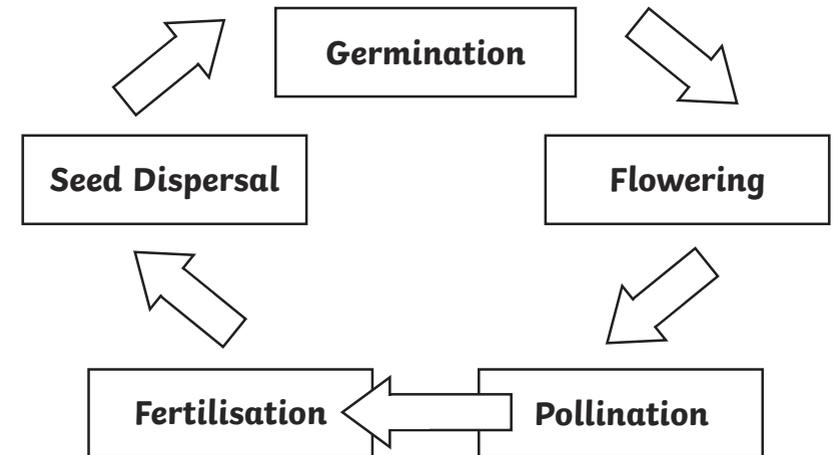
Answers - Plants

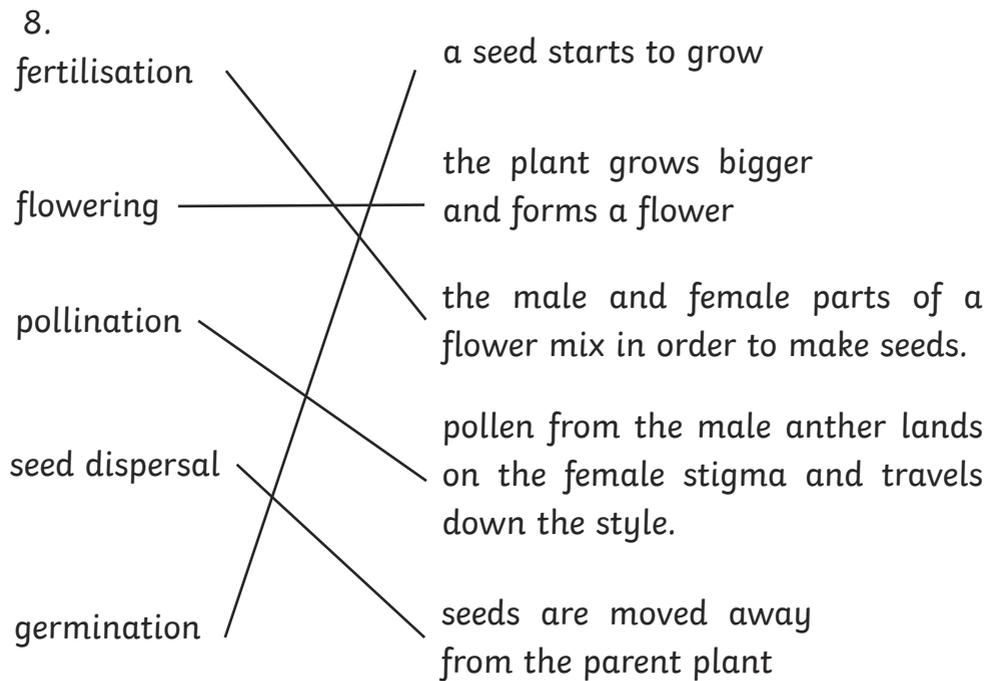
1.



- 2.
- | | |
|---------|--|
| stem | absorb water from the soil |
| leaves | makes seeds to grow into new plants |
| roots | holds the plant up and carries water and nutrients from the soil to the leaves |
| flowers | make food for the plant using sunlight and carbon dioxide. |

3. Accept a response that refers to attracting pollinators/ insects to the plant.
4. **Light, Water, Air, Nutrients**
5. Accept an answer such as: **Cacti needs less waer because it is able to store water for long periods of time.**
6. The **roots** absorb water through the soil. The **stem** transports water to the **leaves**. Water **evaporates** from the leaves. The stem **sucks** up more water from the soil.
- 7.





9. Answer any two of the following with an explanation:

water, shaking, dropping, carrying, eating, bursting.

For example: Seeds can be dispersed by water as the seeds can be transported in rivers and streams from one plant to another. Seeds can also be dispersed when animals eat them, fly away and then the seed comes out in its waste.

Answers - Animals Including Humans

1. Fill in the missing letters to work out the scientific words that are being described in each sentence.

Substances that animals and humans need to stay alive and healthy.

nutrients

Fats that give you energy, vitamins and minerals.

unsaturated

Strength to be able to move and grow.

energy

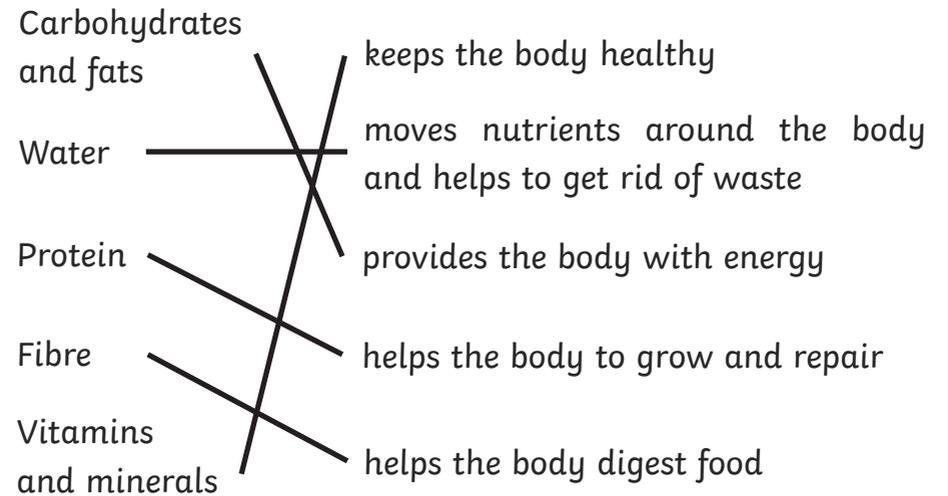
In a good physical and mental condition.

healthy

Fats that should only be eaten in small amounts.

saturated

2. Match up the key scientific word with the description of their function:



3. Write true or false next to each statement.

All fats are bad for you.

Plants can make their own food, but animals cannot. **True**

To be healthy, humans need to exercise and eat a balanced diet. **False**

Animals, including humans, just need food and air to stay alive. **False**

4. Name two important jobs that skeletons do.

Accept two of the following:

- **Protect the organs inside the body**
- **Allow the body to move**
- **Support the body and stop it from falling to the floor.**

5. Use the words below to complete the sentences:

Muscles are soft tissues in the body that contract and relax to cause movement.

Animals without backbones are called **invertebrates**.

Tendons are cords that join muscles to bones.

Areas where two or more bones are fitted together are called **joints**.

6. Give one example of a vertebrate and one example of an invertebrate.

Vertebrate = **accept any animal with a backbone e.g. human, horse, pig, dog, rabbit etc**

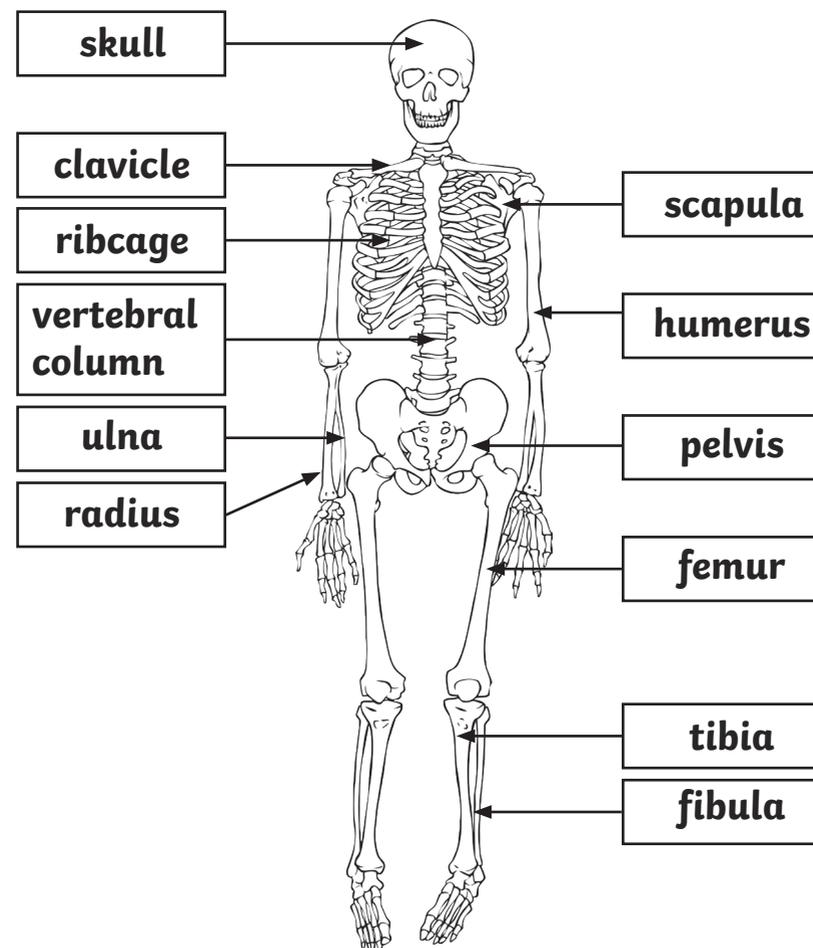
Invertebrate = **accept any invertebrate e.g. worm, fly, crawfish, spider, starfish, snail, jellyfish, squid**

7. Explain how muscles work using the words pairs, contract and relax.

Accept an answer that includes the three words, e.g.

Muscles work in pairs to move the bones that they are attached to. When they contract they pull the bone up and get shorter and when they relax, they release the bone and get longer.

8. Label the bones of the skeleton using the word bank to help you.



Answers - Rocks

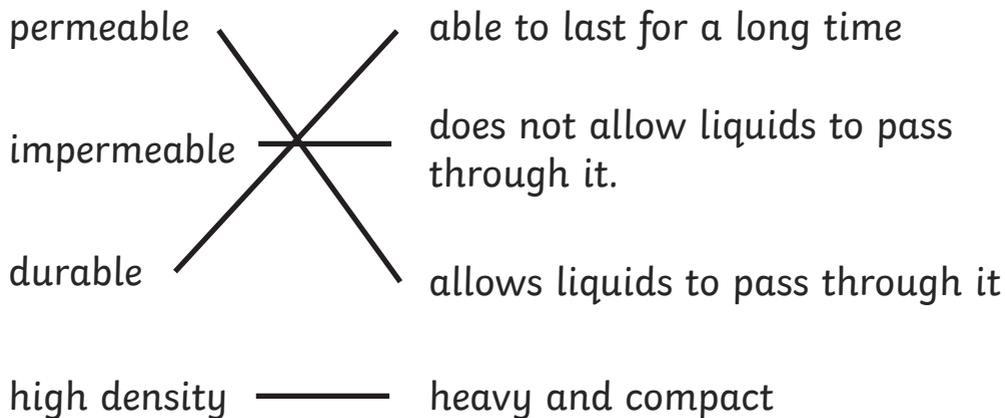
1) Fill in the missing words.

Rock that has been formed from magma or lava is called **igneous rock**.

Rock that has been formed by layers of sediment being pressed down hard and sticking together is called **sedimentary rock**.

Rock that has changed over time due to extreme heat or pressure is called **metamorphic rock**.

2) Match up the property with its description:



3) Write the different rocks from the word bank into the table below.

Igneous	Sedimentary	Metamorphic
Granite Basalt Obsidian	Chalk Limestone Sandstone	Brick Concrete Coade Stone

4) Explain in your own words what a fossil is.

Example answer: A fossil is the preserved remains of a living organism such as a plant, animal or insect.

5) Number the sentences from 1-5 to show the order of the process of fossilisation.

3	Over the thousands of years, sediments enters the mould to make a cast fossil.
1	An animal dies. It gets covered with sediments which eventually become rock.
5	An erosion and weathering take place, eventually the fossil becomes exposed.
2	More layers of rock cover it. Only hard parts of the creature remain such as the bones and teeth.
4	Changes in sea level take place over a long period.

6) True or false?

An archaeologist studies fossils.

False

7) Soil is made up of a mixture of things. Name two of them.

_____ and _____

Accept any two of the following:

- **minerals**
- **air**
- **water**
- **organic matter**

Answers - Light

1) Write true or false next to each statement.

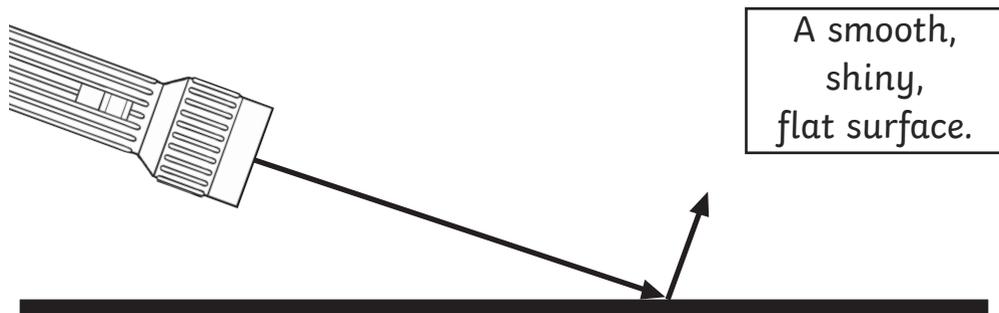
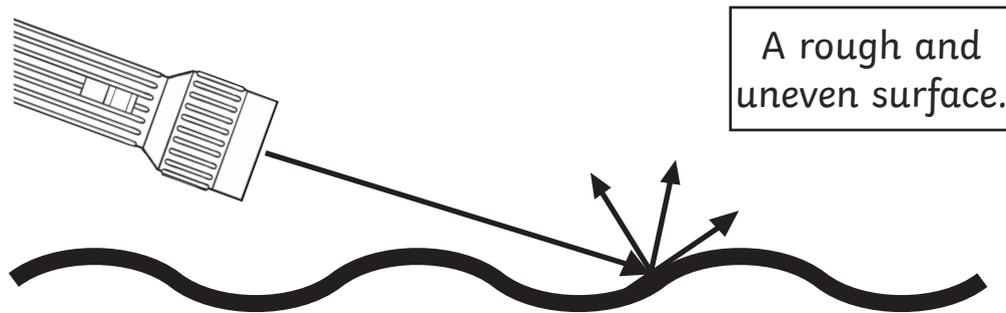
Without light, we cannot see. **True**

Light travels in zigzag lines. **False**

When light hits an object, it stops. **False**

We see when reflected light hits our eyes. **True**

2) Draw lines to show how light reflects off these two different surfaces.



3) Explain in your own words what a fossil is.

Objects that reflect well	Objects that do not reflect well
Examples: glass mirrors ice cat's eyes hi-vis jackets metal	Examples: fabric wood paper skin stone

4) Name three light sources.

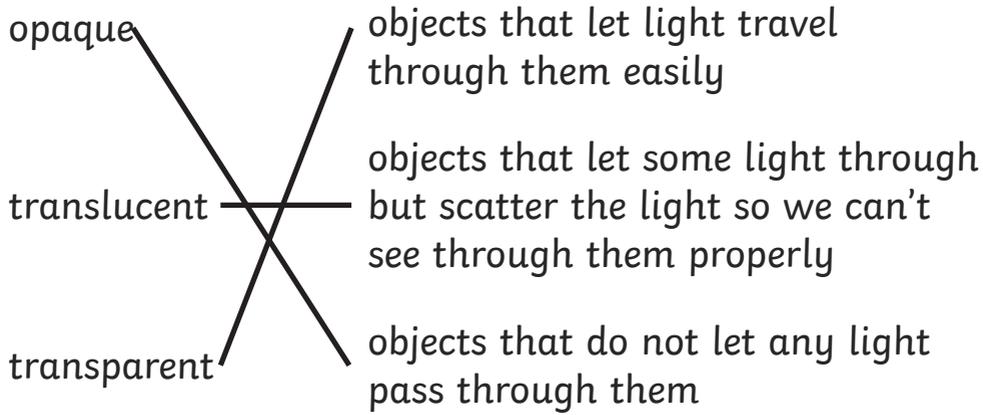
Example answers:

- **the sun**
- **a torch**
- **a candle**

5) Fill in the missing words in the passage below:

The **pupils** control the amount of **light** that enters the eyes. If too much light enters, it can damage the **retina**. **Sunglasses** can be worn to **protect** the retina as they **block** some of the light from getting through.

6) Match the words to the correct definitions:



7) Fill in the table below with opaque, translucent and transparent objects.

Opaque	Translucent	Transparent
Example answers: Wood Metal Clothes Skin	Example answers: Sunglasses Frosted Windows Baking paper	Example answers: Windows Glass Plastic ruler

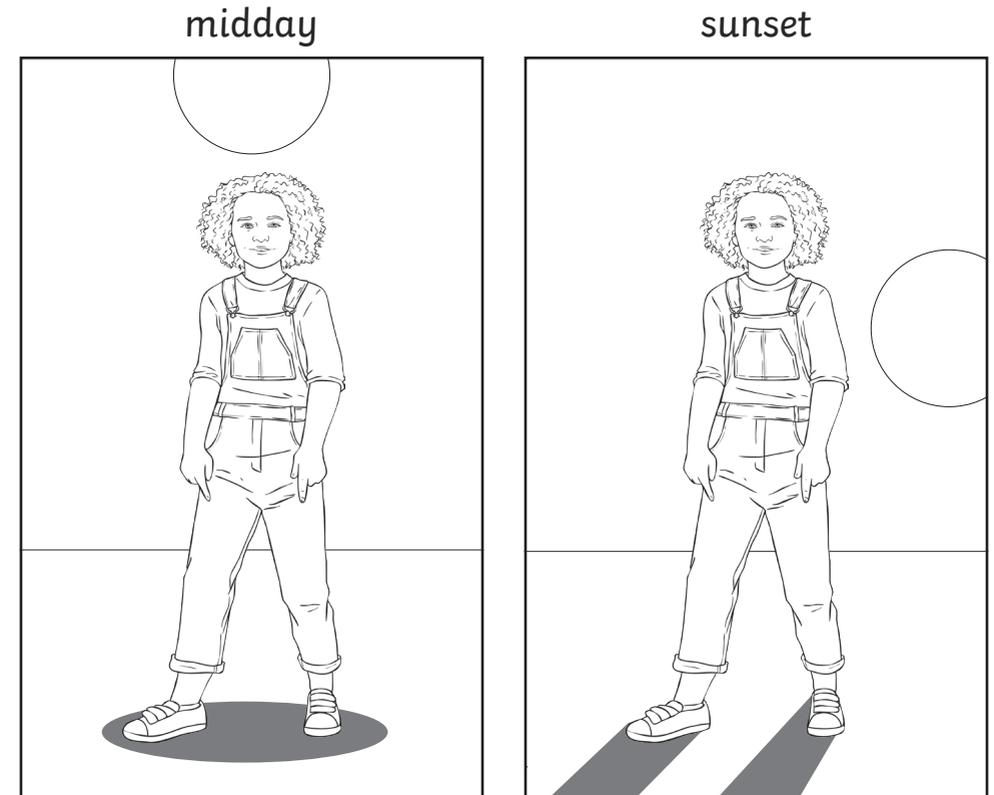
8) Say whether each statement is true or false.

A shadow is caused when light passes through a translucent object. **False**

When an object is closer to the light source, the shadow is larger. **True**

The further away an object is from the light source, the smaller the shadow. **True**

9) Shade the area where the girls shadow would be in the two pictures below:



Answers - Forces and Magnets

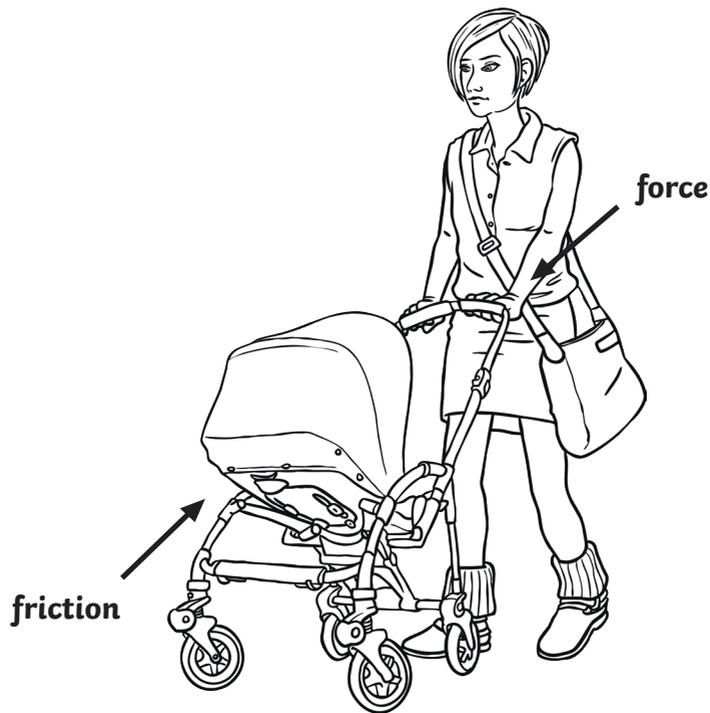
1) Write true or false next to each statement.

A force is a push or pull. **True**

Friction is a force. **True**

More friction is caused when an object moves over a smooth surface. **False**

2) Draw two arrows to show the force and friction in the situation below.



3) Name two surfaces that produce more friction when an object moves over it.

_____ and _____

Example answers include:

- gravel
- sand
- a cracked road

4) Fill in the missing words in the passage below using the word bank to help you:

A magnet is an object which produces a **magnetic** force that **pulls** certain objects towards it. Objects which are **attracted** to a magnet are called magnetic. Objects which are not attracted to a magnet are called **non-magnetic**. When a magnetic force pulls a magnetic object towards it, a magnetic **field** is made. A magnetic field is **invisible**.

5) Circle which of the following materials are magnetic:

iron plastic wood **nickel**
copper aluminium **cobalt**

6) What are the two ends of a magnet called?

North and South

7) Use arrows to show when the poles will repel (push away) each other and when they will attract (pull together) each other.

