

What do all these things have in common?



All of these images are of living things. Sometimes we call them 'organisms'.

Even though they might be very different from each other, all of these organisms share certain characteristics. All living things do certain things to stay alive. These are called **life processes**.

All animals, including humans, do these things. Plants do too, although they do them in different ways.

We can remember life processes by thinking about Mrs Gren.

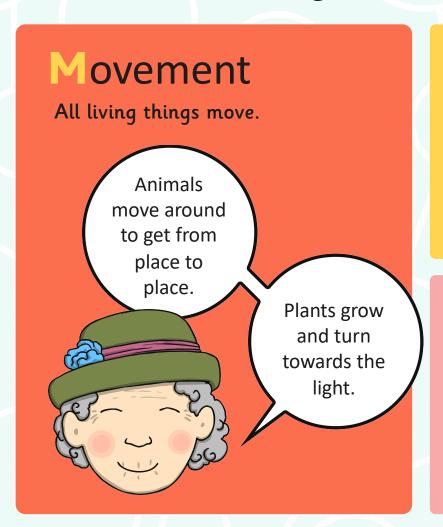


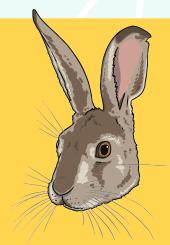
Movement Respiration Sensitivity

Growth
Reproduction
Excretion
Nutrition

MRS GREN



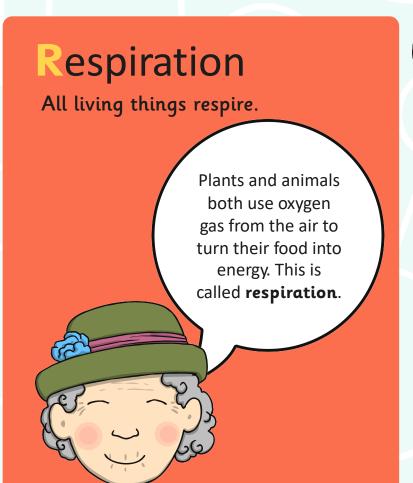




A hare runs to escape from danger.



A sunflower moves to turn its face towards the sun.





Land animals breathe oxygen through their mouths or noses. Sea creatures breathe oxygen dissolved in the water through their gills. Both types of creature then use this oxygen in their body for respiration.

Plants both respire and photosynthesise. While photosynthesis happens when the plant is in light, plants respire by taking in oxygen and giving out carbon dioxide during darkness.

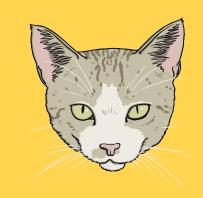


Sensitivity

All living things are sensitive.

Every living thing can detect changes in their surroundings.

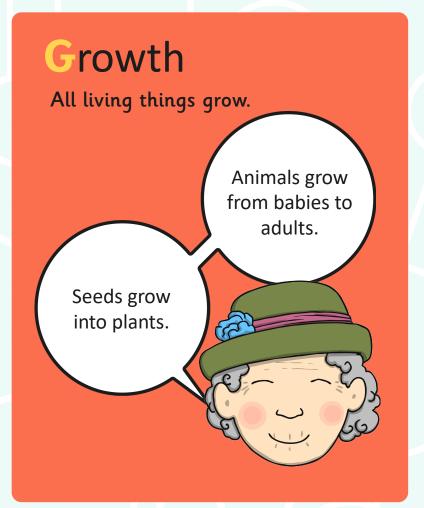




Animals use their senses to see, hear, taste, touch and smell the world around them.

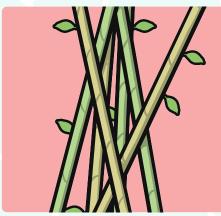


Plants can also detect changes in the environment. This mimosa plant curls up when you touch it!

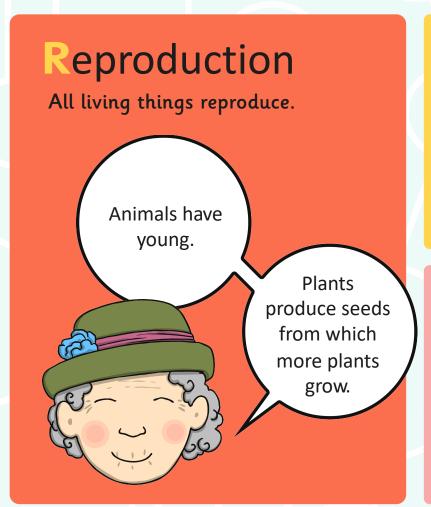




This ocean mola started life as an egg not much bigger than a full stop. It will grow to weigh about 1000 kg - this is the same size as a large bull!



Bamboo can grow up to 3cm every hour.

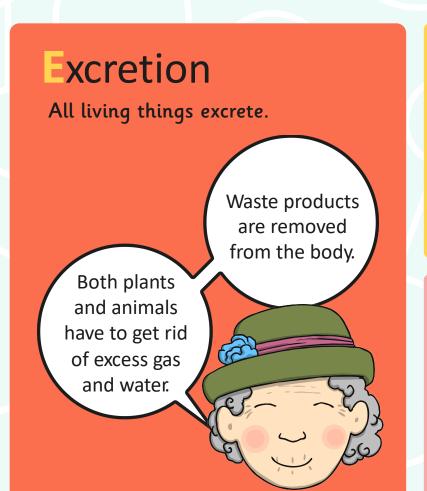




Animals lay eggs or give birth to live young.



Most plants reproduce by forming seeds.

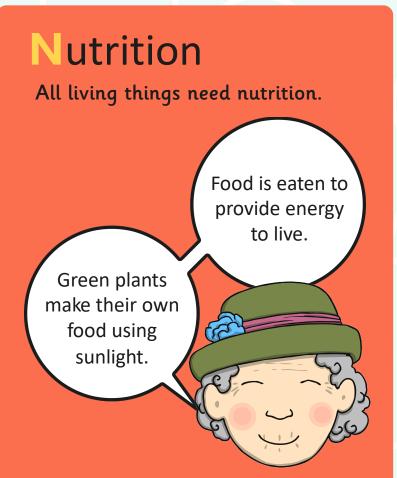


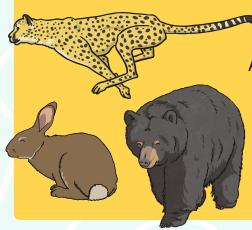


Animals excrete waste through urine and faeces.

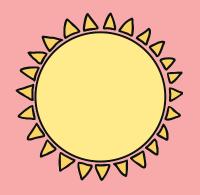


Leftover gases and water leave plants from their leaves.





Animals may be carnivores, herbivores or omnivores.

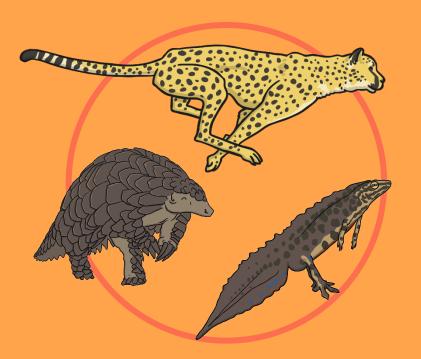


Green plants make their own food using the energy from the sun.

All living organisms share these characteristics. This is how we know they are alive!

Living things have lots of other similarities, and many differences too. We can use these similarities and differences to sort the living things into groups.





Think!

Grouping Living Things

How can we could sort these organisms into two groups?



Here the organisms have been sorted into two groups. We have used a diagram to represent these groups.

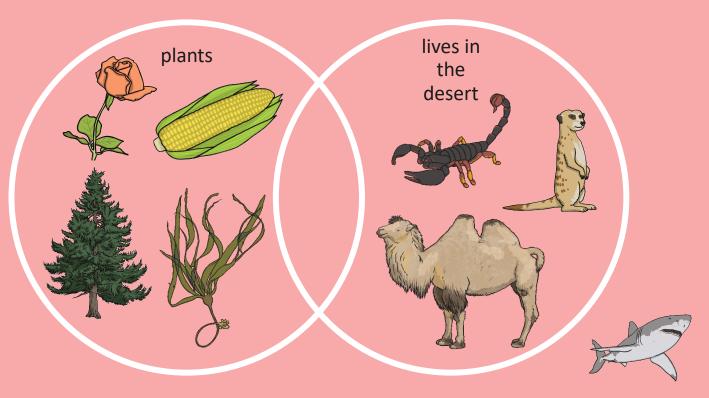
Can an organism be in both groups at the same time?



Here, an organism cannot be both an animal and a plant, so it can not be in both groups at the same time.



This is called a Venn Diagram. Where does a cactus go in this diagram? How about a polar bear?



How is this diagram different to the previous diagram?

This is a Carroll Diagram. Can you name an animal to go in each section of this diagram?

	Lives in water	Lives on land
Has legs	Crab Sea otter	Horse Spider
Does not have legs	Whale Fish	Snake Worm

Could you put a plant in this diagram? What about a dandelion? Or seaweed?

Criteria

We have asked some questions to sort our living things into groups so far.

We sometimes call these criteria, which means a rule that we use to decide something.

Plant or animal.

Lives in the desert or does not live in the desert.

Has legs or does not have legs.

Lives on the land or lives in the water.

Today, you are going to be sorting animals.

With a partner, think of different groups that you could sort animals into.

Think of as many different groups as you can.

Criteria



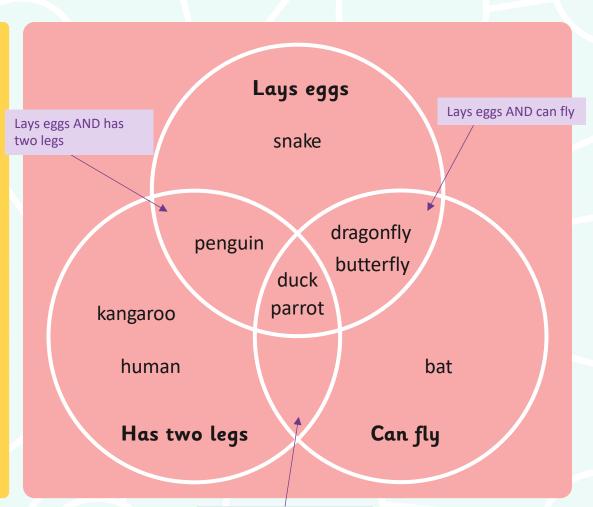
What criteria did you think of?

Sorting into Three Groups

Venn diagrams can be used to sort lots of groups of animals.

Where would a turtle go on this diagram?

Where would a cat go?

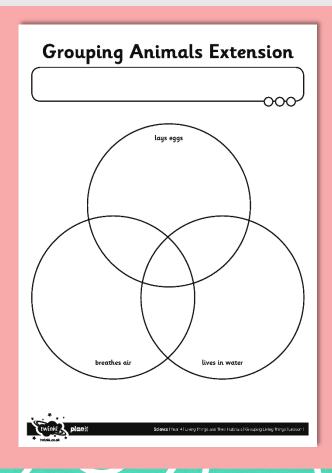


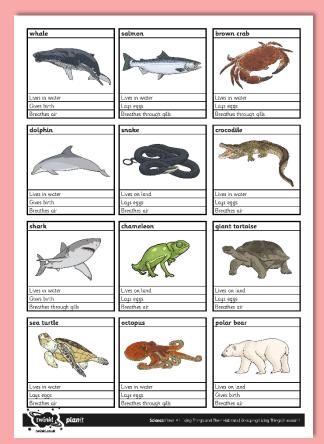
Has two legs AND can fly

Sorting into Three Groups

Have a go at the sorting activity. You can print the sheets or draw it in your home learning books.

Look at the animal cards, write the names of the animals in the correct section of the Venn diagram.





Fancy a Challenge? Grouping Animals Quiz

If you fancy a challenge, have a go at the grouping animals quiz. Use the information slides to help you.

