

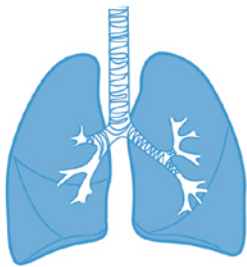
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Humans and animals

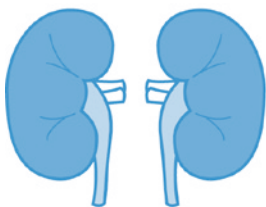
Exercise 1.1 Body organs

In this exercise, you will name body organs and identify their position in the body.

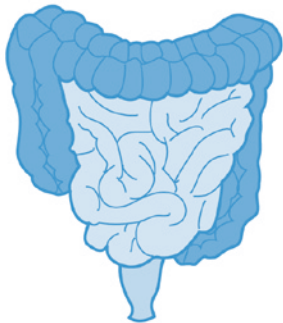
- 1 Some body organs are shown. Write the name of the body organ below each drawing.
- 2 Draw a line from each organ to its correct position in the body.

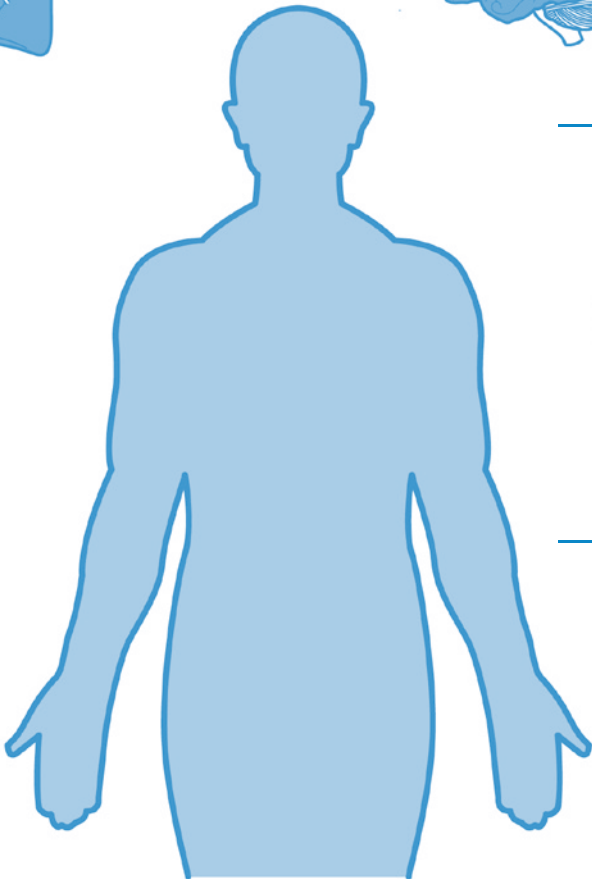












Exercise 1.2 The heart

In this exercise, you will test your knowledge about the heart.

1 a Name the body system that the heart is part of.

b Name the two other parts of this system.

2 Use the words in the box to complete the sentences. You will need to use some words more than once.

blood blood vessels food lungs oxygen waste products

a The heart pumps _____ through the body.

b The left side of the heart pumps _____ that contains

_____.

c The right side of the heart pumps _____ without _____
to the _____.

d Blood is carried in _____.

e Blood carries _____ and _____ to all parts
of the body and takes away _____.

Exercise 1.3 Heartbeat and pulse

In this exercise, you will analyse pulse rate measurements.

Name	Pulse rate
Marcus	88
Cui	110
Clara	90
Marta	87
Thabo	90

Marcus and his friends measured their pulse rates. These are their results.

- 1

What units do we use to measure pulse rate?
- 2

What is the average pulse rate of the group? How did you work this out?
- 3

a

What pattern can you see in the results?

b

Which result does not fit the pattern? Suggest a reason for this.

c

How can you find out if your suggestion is correct?

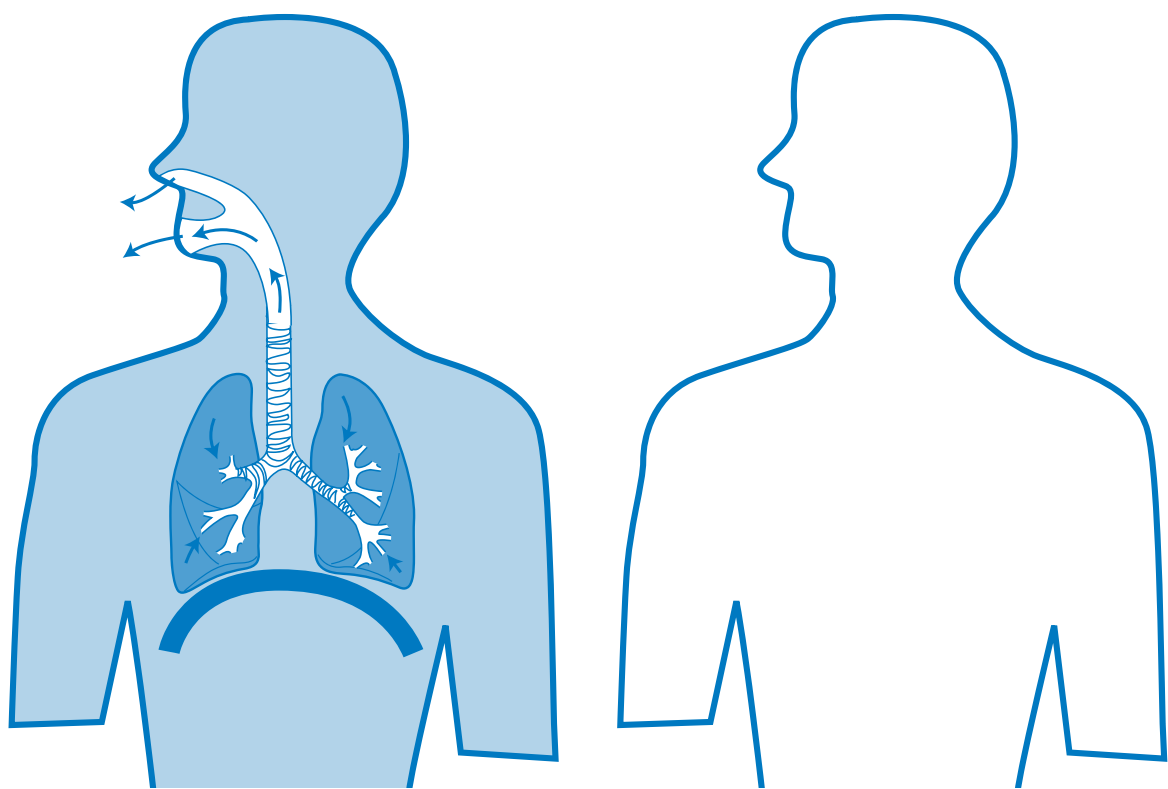
Exercise 1.4 **The lungs and breathing**

In this exercise, you will make a drawing of the lungs.

- 1
- The drawing shows the lungs when you breathe out.

Make a drawing to show what happens to the lungs when you breathe in.

Label your drawing.



- 2
- Complete the flow diagram using these words to show the oxygen pathway when we breathe in.

blood lungs nose windpipe

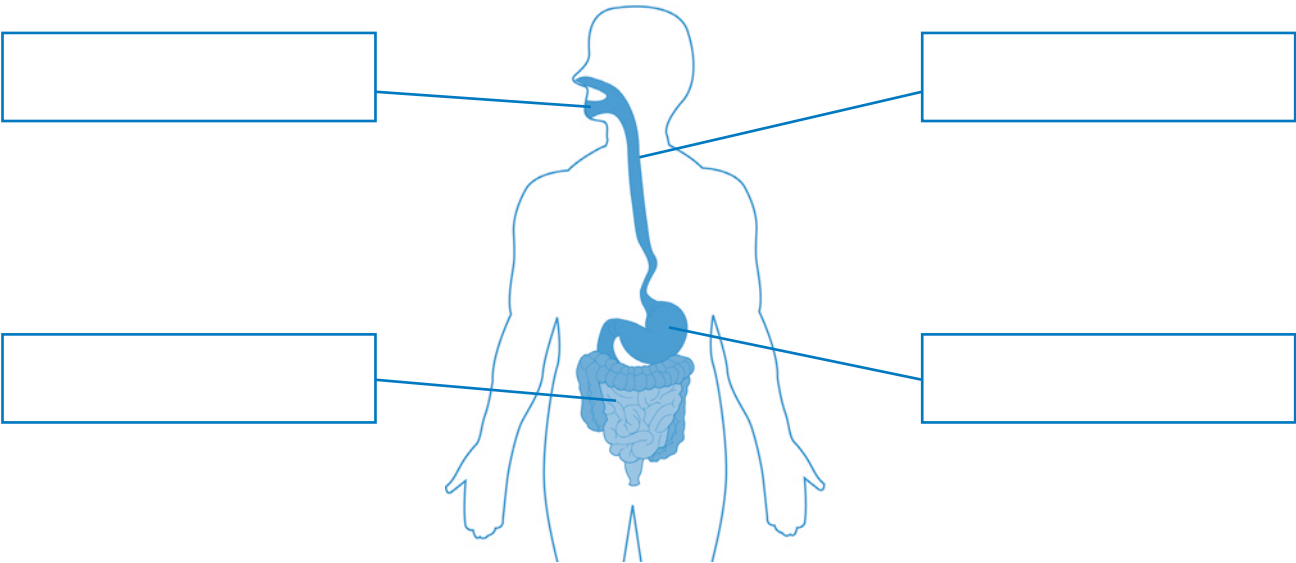
_____ → _____ → _____ → _____

Exercise 1.5 The digestive system

In this exercise, you will identify the parts of the digestive system and their functions.

1 Label the diagram of the digestive system. Use these words to help you.

gullet intestine mouth stomach



2 a Match each of the labelled parts with its function listed in the table. Write the name of the part next to its function.

Part	Function
	pushes food into the stomach
	mixes food with digestive juices
	chews food and starts digestion
	breaks food down into very tiny particles

b The functions in the table are not in the same order as they happen in the body. Write the functions in the correct order.

_____ → _____ → _____ → _____

Exercise 1.6 **What do the kidneys do?**

In this exercise, you will complete sentences about the kidneys and their functions.

Use the words in the box to help you. You will need to use some words more than once.

bean-shaped

dialysis

disease

excretion

filter

urine

waste products

water

The kidneys are a pair of _____ organs. Their main function is _____. They _____ the blood to remove _____. They also help control the amount of _____ in the body. The wastes from the kidneys leave the body as liquid _____. We should drink enough _____ every day to keep the kidneys healthy. The kidneys cannot work properly if we have a kidney _____. Some people need a special machine called a _____ machine to do the job of the kidneys.

Exercise 1.7 **What does the brain do?**

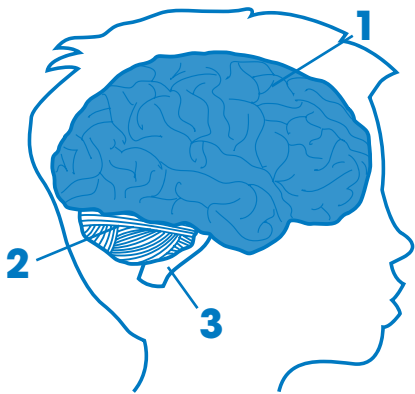
This exercise tests your knowledge about the brain.

1 **a** Which body system is the brain part of?

b Name another part of this body system.

2 Name two important body functions that are controlled by the brain without you having to think about them.

3 Choose the part of the brain in the drawing that controls each of the following:



- a** Saying your name _____
- b** Standing on one leg _____
- c** Kicking a ball _____
- d** Listening to music _____
- e** Breathing faster while running

4 Explain why someone who has had a serious head injury may not be able to talk anymore.

Language review

This exercise checks that you understand the scientific words used in this unit.
Choose the correct words from the word box to complete the sentences.

breathing circulation circulatory system controls
digestion disease excretion lungs nervous system
organs pulse urine windpipe

_____ inside our bodies do different jobs to keep us alive and healthy.

The pumping of blood around the body is called _____.

The heart, blood vessels and blood form the _____.

Your _____ tells you how fast your heart is beating.

The mouth, stomach and intestines carry out the process of _____.

We take air into our bodies and let air out of our bodies by _____.

Air moves from the nose, down the _____ and into the _____.

The main function of the kidneys is _____. They produce a liquid called _____.

A sickness that stops our bodies working properly is called a _____.

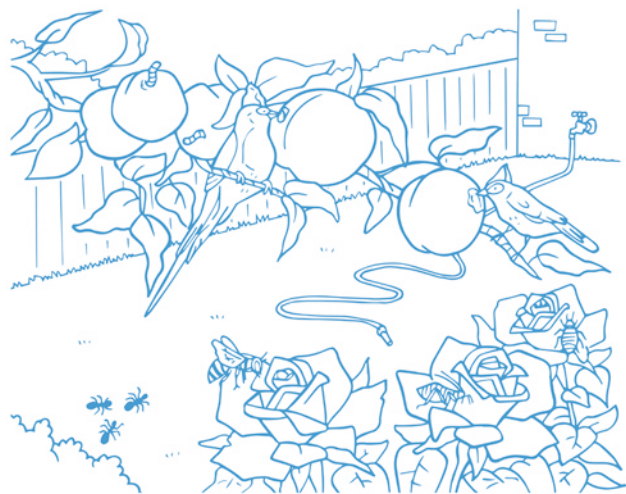
The brain is part of the _____. It _____ all our body functions.



Living things in the environment

Exercise 2.1 Food chains in a local habitat

In this exercise, you will apply and practise what you know about habitats and food chains.



This garden is full of plants and animals that live together. The peach tree provides a home and food for the birds and the caterpillars. The roses provide food for the bees and aphids. The grass provides food for ants.

- 1

Identify the habitat in the picture.
- 2

Draw five food chains to represent the feeding relationships between plants and animals that you can see in the picture.
- 3

Describe two other ways in which plants and animals depend on each other in this garden.

Exercise 2.2 Food chains begin with plants

In this exercise, you will identify producers and consumers and draw a food chain.

Look at this picture.

