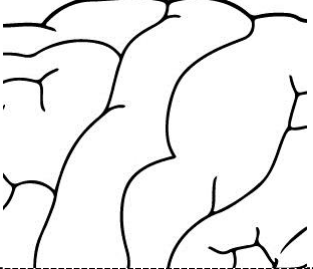

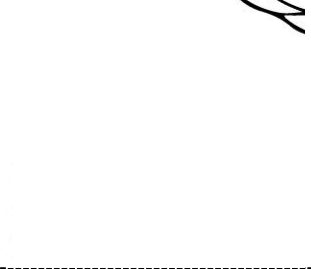
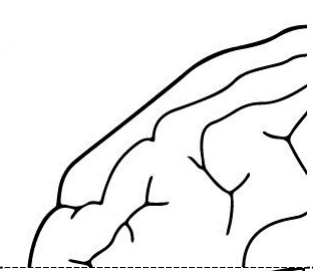
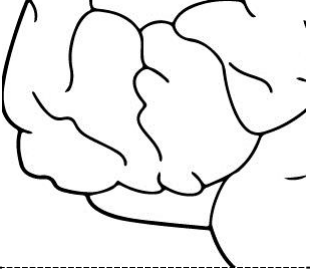
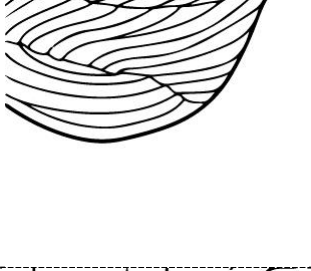
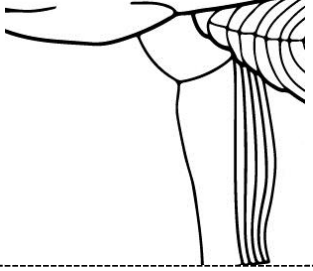
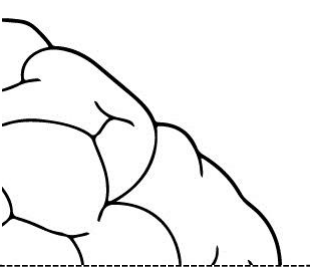
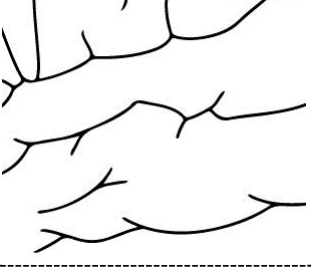




- 1 Cut out the cards and use the ones showing drawings to construct a diagram of the brain.
- 2 Stick the diagram cards down and add the labels for the front and back of the brain.
- 3 Match the other cards together to form labels.
- 4 Stick the label cards down and use lines to link the labels with their positions on the diagram.

			carries signals between the brain and the rest of the body
			contains two cerebral hemispheres
			controls your breathing rate
used for most senses, including vision	spinal cord	medulla oblongata	cerebellum
used for balance	cerebral cortex	used for consciousness and language	made of many nerves
front of brain	controls your heart rate	used for memory and behaviour	back of brain

Name _____ Class _____ Date _____

1 The table below has some missing parts. The missing parts are given below. Write the letters of the parts into the correct positions in the table.

P **spinal cord**

Q controls breathing rate and heart rate

R used for most of our senses, language, memory, behaviour and consciousness

S central link between brain and spinal cord

T made of **nerves**

U controls balance, posture and fine muscle movements

V **cerebellum**

W two hemispheres

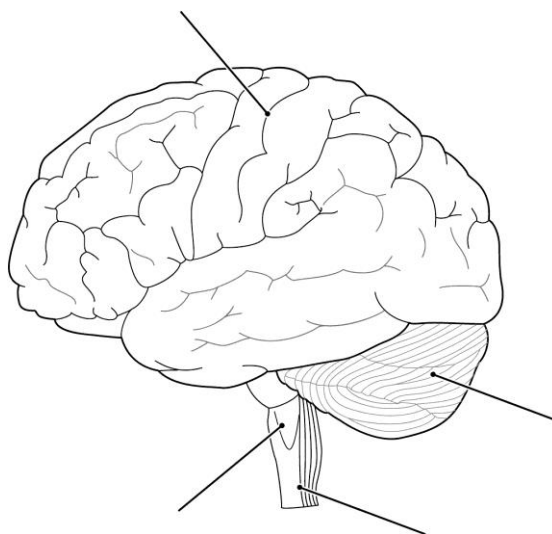
EASIER

Part	Structure	Function
cerebral cortex	<ul style="list-style-type: none"> • _____ • made mainly of neurones 	• _____
_____	<ul style="list-style-type: none"> • in two halves • made mainly of neurones 	• _____
medulla oblongata	<ul style="list-style-type: none"> • _____ • made mainly of neurones 	• _____
_____	• _____	• connects the brain to the rest of the nervous system

S1 Draw a table to summarise the structures and function(s) of the major parts of the brain.

- 2 a Label the diagram of the brain below with the names of the parts in the first column of the table.
 b Add labels to the diagram to show which is the front and which is the back of the brain.

HARDER



Name _____ Class _____ Date _____

1 Complete these sentences using words from the box below.

The _____ is an _____ that controls what your body does and how you _____. It is made of many cells called _____ and is protected by bones, which form the _____.

brain **neurones** organ skull think

2 Many scientists have had different ideas about the brain.

Using a microscope, I can see tiny, thin strings in the brain.

I have cut open brains and found four chambers, each filled with liquid.

The brain is cold to the touch.

I can use nerves to complete electrical circuits – they conduct electricity!

The brain cools the body.

The brain controls the body using electricity.

The brain controls the body using liquids.

The brain is made of thin cells.



Aristotle (384–322 BCE)



Galvani (1737–1798)



Galen (c.130–c.201)

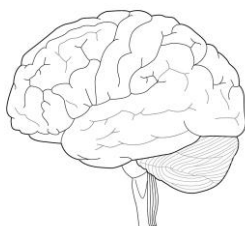


Van Leeuwenhoek (1673–1723)

- a Draw lines between the hypotheses and the evidence used to support the hypotheses.
- b Which of the scientists' hypotheses do we still think are correct today?

3 State what the **spinal cord** is made of and its function.

4 a Draw lines to link parts of the brain to the names. Then link each part with its function.



Name

cerebellum

cerebral cortex

medulla oblongata

Function

used for most of our senses

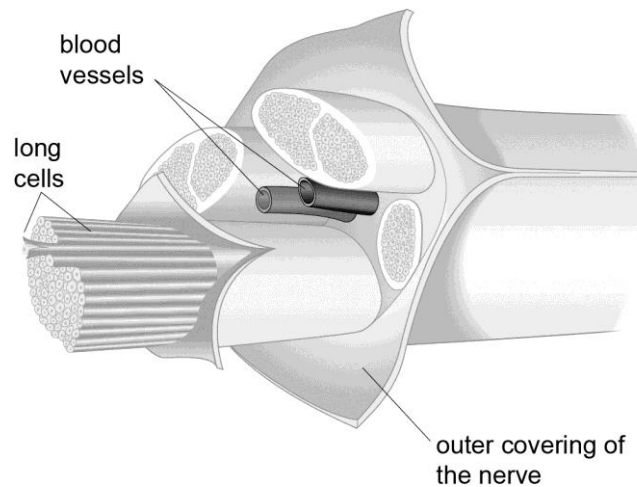
controls breathing rate and heart rate

controls balance

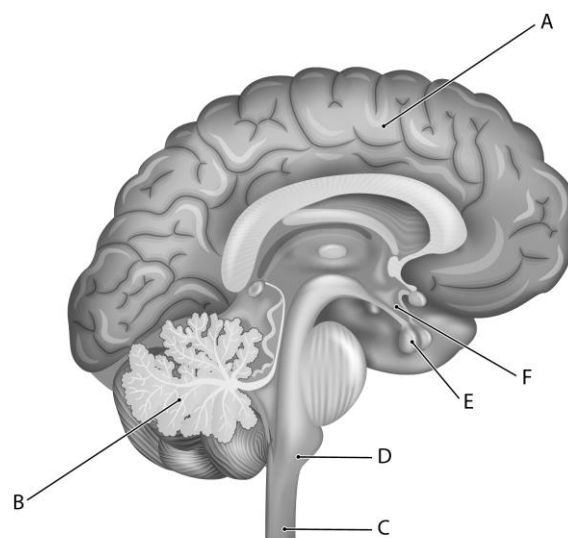
- b What name is given to the two parts of the cerebral cortex?

- 1 a Describe the structure of the **cerebral cortex**.
 b Describe the position of the cerebral cortex in the human brain.
 c Use your answers to **a** and **b** to help you write a well-structured paragraph to describe the position, structure and function of the cerebral cortex in the human brain.

- 2 The diagram on the right shows a **nerve**. Describe the structure and function of nerves.



- 3 State the part of the brain or nervous system that has been affected in each of the following situations. Give a reason for each of your choices.
- After drinking too much alcohol, a man fell over as he tried to get up out of a chair.
 - A person suffered a head injury and was no longer able to communicate verbally.
 - After a horse-riding accident, a man was paralysed from the neck downwards.
 - A tumour caused a woman to go blind in her left eye, although the eye still responded to light.
 - Due to blood vessels dying in part of the brain, a girl's heart started to beat irregularly.
 - A man developed dementia and gradually lost his memory.
- 4 A doctor specialising in the nervous system is called a neurologist. One of the standard tests that neurologists ask people to do is to reach up and then touch their noses. Explain what part of the brain they are examining in this test.
- 5 What are the names of the parts of the brain labelled A – D in the diagram on the right?



Extra challenge

- 6 Look at the diagram of the brain in question 5 again. Identify parts E and F and find out what they do.

Name _____ Class _____ Date _____

Progression questions
















Answer these questions.

1 What are the brain and spinal cord made of?

2 What are the main parts of the brain?










3 What do some of the different parts of the brain and spinal cord do?

Now circle the faces in the 'Start' row in the table showing how confident you are of your answers.

Question	1	2	3
Start	    	    	    

Assessment

Using a different colour, correct or add to your answers above. You may need to use the back of this sheet or another piece of paper. Then circle the faces in the 'Check' row in the table.

Question	1	2	3
Check	    	    	    

Feedback

What will you do next? Tick one box.

 strengthen my learning strengthen then extend extend

Note down any specific areas you need to improve.

Action

You may now be given another activity. After this, note down any remaining areas you need to improve and how you will try to improve in these areas.
