

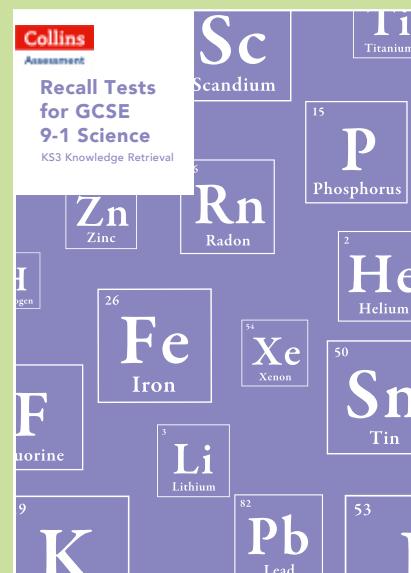
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Cells 2: Animal cells

1 Complete the following sentences.

[2 marks]

All living things are made of simple building blocks called _____.

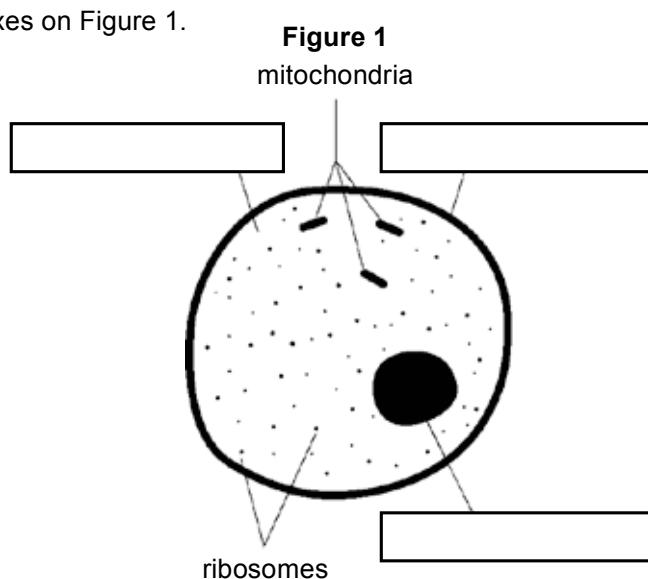
These building blocks are so small that they can only be seen using a _____.

2 Figure 1 shows an animal cell.

[2 marks]

Label the following cell parts in the boxes on Figure 1.

- Nucleus
- Cytoplasm
- Cell membrane



3 Draw a line to match each cell part to its function.

[3 marks]

Cell part

nucleus

Function

where most cell reactions happen

cytoplasm

where energy is released from food molecules

mitochondria

contains DNA which controls the cell's activities

4 State the function of the cell membrane.

[1 mark]

5 Name **two** cell parts that animal cells do not contain.

[2 marks]

1. _____

2. _____

Total marks _____ /10

Chemical reactions 3: Oxidation and displacement

1 Name the product for each of the following reactions

[2 marks]

a. copper reacts with oxygen _____

b. iron reacts with oxygen _____

2 Complete the following sentences. Use words from the box.

[5 marks]

displaced	element	less	metal	more
oxide	oxygen	reacted		

During oxidation, elements react with _____. When a metal is

oxidised, it becomes a metal _____.

During displacement reactions, a _____ reactive element takes the

place of a _____ reactive element. The less reactive element

is _____.

3 Identify which of the following are oxidation reactions and which are displacement reactions [3 marks]

a. aluminium + oxygen → aluminium oxide

Type of reaction _____

b. aluminium oxide + potassium → potassium oxide + aluminium

Type of reaction _____

c. potassium + oxygen → potassium oxide

Type of reaction _____

Total marks _____ /10

Forces 1: Speed

- 1 Give the units for the following quantities:

[3 marks]

Distance _____

Time _____

Speed _____

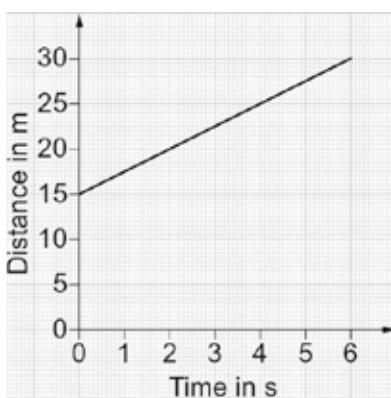
- 2 Write down the equation which links average speed, distance and time.

[1 mark]

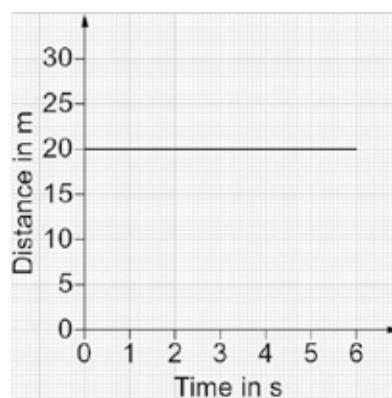
- 3 Figure 1 shows three distance-time graphs.

Figure 1

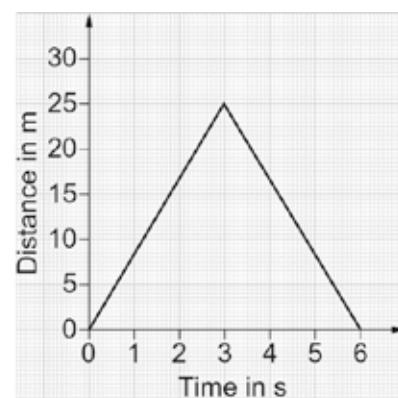
(a)



(b)



(c)



Write **one** letter in each box.

[3 marks]

State which graph shows:

A stationary object

An object travelling and returning to the starting point

An object travelling at a constant speed

- 4 [AQA KS3] Describe the shape of a distance-time graph that shows acceleration.

[1 mark]

- 5 Describe the speed of an object when

[2 marks]

the slope on a distance-time graph is steep

the slope on a distance-time graph is gentle

Total marks _____ /10