



Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

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Forename(s)

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Candidate signature

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I declare this is my own work.

# GCSE BIOLOGY

# F

Foundation Tier      Paper 2F

Monday 9 June 2025

Morning

Time allowed: 1 hour 45 minutes

## Materials

For this paper you must have:

- a ruler
- a scientific calculator.

## Instructions

- Use black ink or black ball-point pen.
- Pencil should only be used for drawing.
- Fill in the boxes at the top of this page.
- Answer **all** questions in the spaces provided.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.
- In all calculations, show clearly how you work out your answer.

## Information

- The maximum mark for this paper is 100.
- The marks for questions are shown in brackets.
- You are expected to use a calculator where appropriate.
- You are reminded of the need for good English and clear presentation in your answers.

For Examiner's Use

| Question     | Mark |
|--------------|------|
| 1            |      |
| 2            |      |
| 3            |      |
| 4            |      |
| 5            |      |
| 6            |      |
| 7            |      |
| 8            |      |
| 9            |      |
| 10           |      |
| <b>TOTAL</b> |      |



J U N 2 5 8 4 6 1 2 F 0 1

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8461/2F

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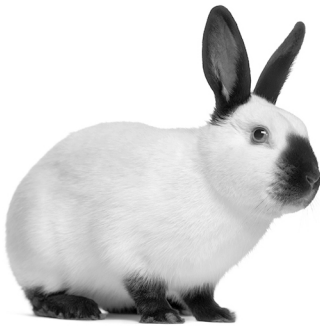
Answer **all** questions in the spaces provided.

0 1

Some people keep rabbits as pets.

**Figure 1** shows two types of rabbit.

**Figure 1**



**Himalayan rabbit**  
has black patches



**White rabbit**  
has no black patches

The fur colour pattern in the Himalayan rabbit is caused by a dominant allele.

0 1 . 1

What is a dominant allele?

**[1 mark]**

Tick (✓) **one** box.

An allele expressed only if a rabbit has two copies of the allele

☐

An allele expressed only if it is inherited from the male rabbit

☐

An allele expressed when a rabbit has only one copy of the allele

☐

**Question 1 continues on the next page**

**Turn over ►**



In Questions **01.2** and **01.3**, use the following symbols:

**H** = dominant allele for Himalayan fur pattern

**h** = recessive allele for white fur.

**0 1 . 2** What is the genotype of a white rabbit?

[1 mark]

Tick (✓) **one** box.

HH ☐      Hh ☐      hh ☐

A male Himalayan rabbit was crossed with a female Himalayan rabbit.

The male rabbit and the female rabbit each had the heterozygous genotype **Hh**.

Some of the offspring were Himalayan rabbits and some of the offspring were white rabbits.

**0 1 . 3** Complete the Punnett square diagram in **Figure 2**.

You should show:

- the male gametes
- the offspring genotypes.

[3 marks]

**Figure 2**

|      |  | Female |   |
|------|--|--------|---|
|      |  | H      | h |
| Male |  | HH     |   |
|      |  |        |   |



01.4

Some of the offspring in **Figure 2** are homozygous and some are heterozygous.

Draw a ring around the genotype of **one homozygous** offspring in **Figure 2**.

[1 mark]

01.5

Four offspring were born.

How many of the four offspring would you expect to be Himalayan rabbits?

Use **Figure 2**.

[1 mark]

Tick (✓) **one** box.

|   |                          |   |                          |   |                          |   |                          |
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|---|--------------------------|---|--------------------------|---|--------------------------|---|--------------------------|

01.6

Inheritance of sex in rabbits is the same as inheritance of sex in humans.

A female rabbit has two X chromosomes in each body cell.

How many X chromosomes does a male rabbit have in each body cell?

[1 mark]

Tick (✓) **one** box.

|   |                          |   |                          |   |                          |
|---|--------------------------|---|--------------------------|---|--------------------------|
| 0 | <input type="checkbox"/> | 1 | <input type="checkbox"/> | 2 | <input type="checkbox"/> |
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01.7

Some of the offspring in **Figure 2** would be male and some of the offspring would be female.

How many of the four offspring in Question **01.5** would you predict to be female?

[1 mark]

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| 0 | 2 |
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Some human responses are reflex actions.

|   |   |   |   |
|---|---|---|---|
| 0 | 2 | . | 1 |
|---|---|---|---|

Give **two** features of a reflex action.

**[2 marks]**

1 \_\_\_\_\_

\_\_\_\_\_

2 \_\_\_\_\_

\_\_\_\_\_

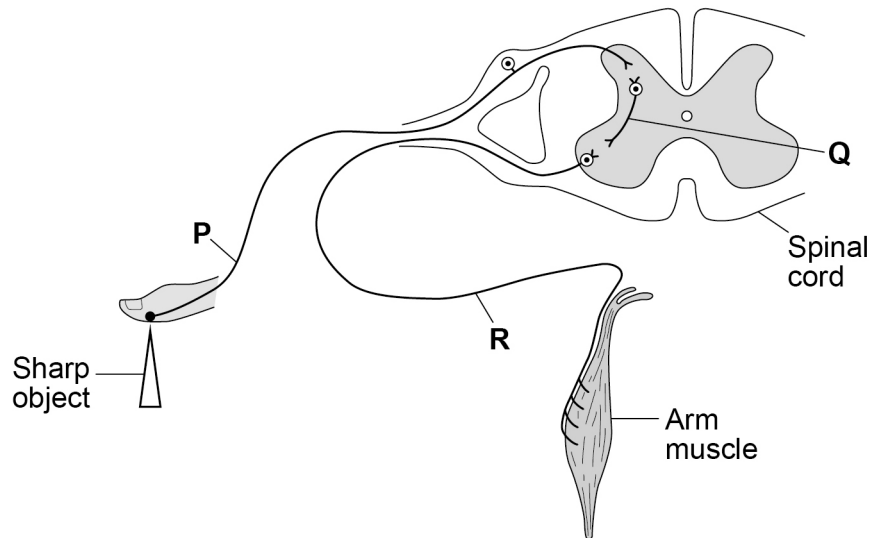
**Question 2 continues on the next page**

**Turn over ►**



**Figure 3** shows the nerve pathway for moving a hand away from a sharp object.

**Figure 3**



0 2 . 2

Complete the sentences.

Choose answers from the box.

**[2 marks]**

|             |          |          |          |
|-------------|----------|----------|----------|
| coordinator | effector | receptor | stimulus |
|-------------|----------|----------|----------|

When the finger touches the sharp object, the point

stimulates the \_\_\_\_\_.

Nerve impulses reach the arm muscle which is the \_\_\_\_\_.





**0 2 . 3** P, Q and R in **Figure 3** are three types of neurone.

Draw **one** line from each letter to the type of neurone.

**[3 marks]**

| Letter | Type of neurone |
|--------|-----------------|
| P      | Motor           |
| Q      | Reflex          |
| R      | Relay           |
|        | Sensory         |

**0 2 . 4** The gap between two neurones is called a synapse.

How does information travel across the synapse?

**[1 mark]**

Tick (✓) **one** box.

As a chemical

☐

As pain

☐

As sound

☐

**Question 2 continues on the next page**

**Turn over ►**

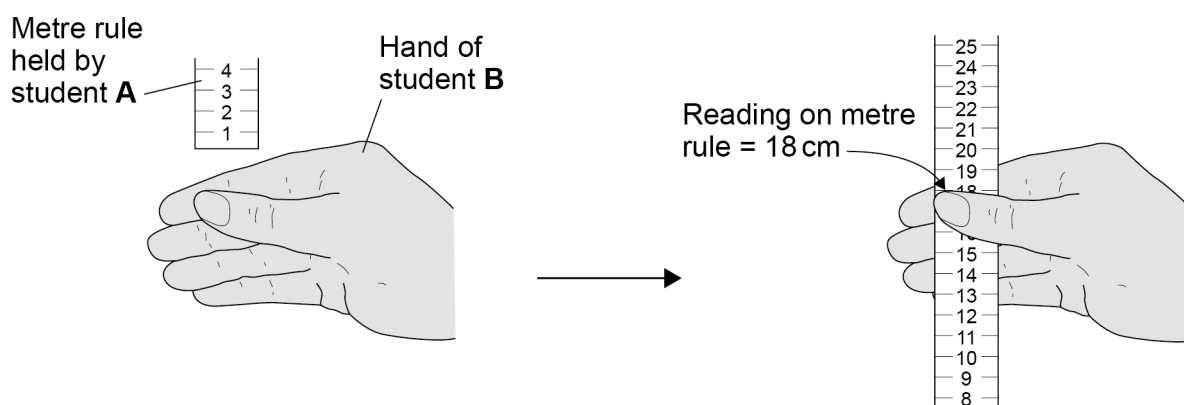


Two students investigated reaction time.

This is the method used.

1. Student **A** holds a metre rule just above student **B**'s hand, as shown in **Figure 4**.
2. Student **A** lets go of the metre rule.
3. Student **B** catches the metre rule as quickly as possible.
4. Student **A** writes down the reading from the scale on the metre rule.
5. Students **A** and **B** repeat steps 1 to 4 two more times.

**Figure 4**



**Table 1** shows the results.

**Table 1**

| Test | Reading on metre rule in cm |
|------|-----------------------------|
| 1    | 18                          |
| 2    | 17                          |
| 3    | 13                          |
| Mean | X                           |



0 2 . 5

Calculate mean value **X** in **Table 1**.

[2 marks]

\_\_\_\_\_

\_\_\_\_\_

**X** = \_\_\_\_\_ cm

0 2 . 6

The students concluded:

‘Practice improved the speed of student **B**’s reaction.’

Give evidence for the students’ conclusion.

Use **Table 1**.

[1 mark]

\_\_\_\_\_

\_\_\_\_\_

0 2 . 7

Suggest **one** way to improve the investigation.

[1 mark]

\_\_\_\_\_

\_\_\_\_\_

12

Turn over for the next question

Turn over ►

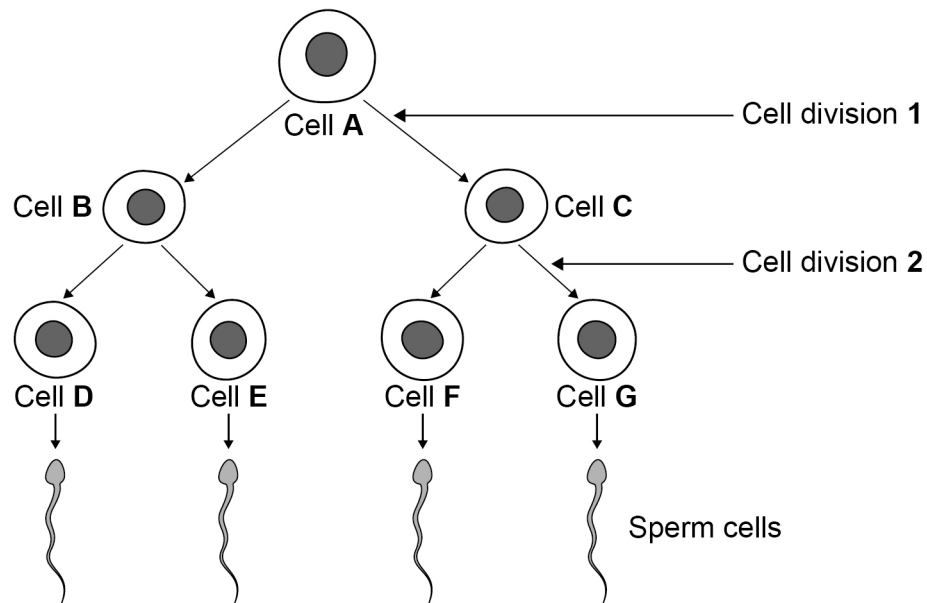


0 3

New cells are produced by cell division.

**Figure 5** shows sperm formation in a human.

**Figure 5**



0 3 . 1

Where in the body are sperm cells produced?

[1 mark]

---

0 3 . 2

How many chromosomes are there in cell **A** and in cell **D**?

Choose answers from the box.

[2 marks]

|    |    |    |    |
|----|----|----|----|
| 23 | 24 | 46 | 92 |
|----|----|----|----|

Cell **A** \_\_\_\_\_

Cell **D** \_\_\_\_\_



**0 3 . 3**

Complete the sentence.

Choose the answer from the box.

**[1 mark]****differentiation****evolution****fertilisation**

A sperm cell joins with an egg cell in a process called \_\_\_\_\_.

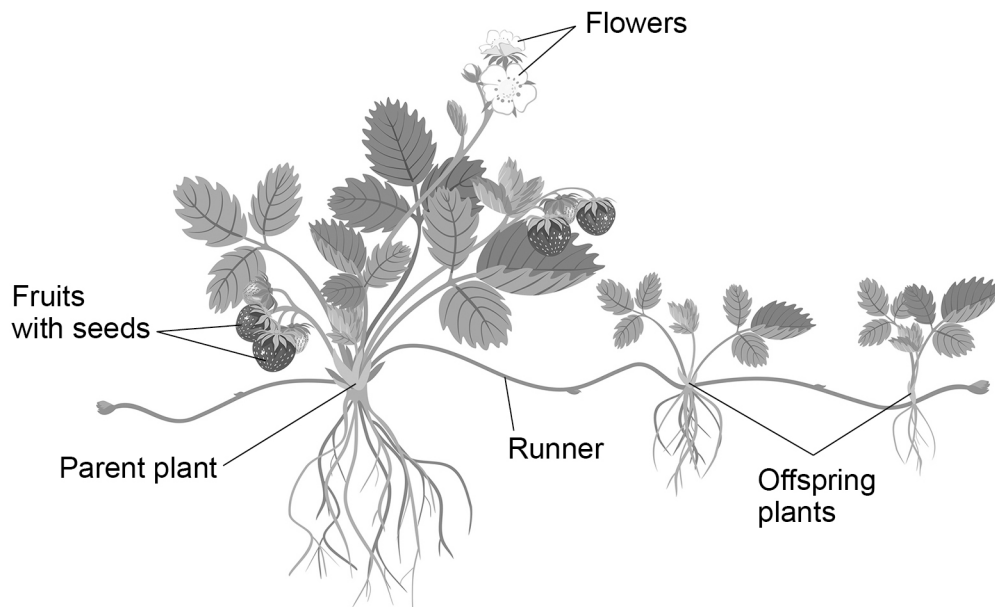
**Question 3 continues on the next page****Turn over ►**

Strawberry plants can reproduce both sexually and asexually.

**Figure 6** shows a strawberry plant reproducing:

- sexually, using flowers, fruits and seeds
- asexually, using horizontal stems called runners.

**Figure 6**



**0 3 . 4** Meiosis produces gametes.

What is the name of the male gamete in a flower?

**[1 mark]**

Tick (✓) **one** box.

Embryo

☐

Ovum

☐

Pollen

☐


**0 3 . 5** Which process produces new cells in runners?

**[1 mark]**

Tick (✓) **one** box.

Binary fission

☐

Evolution

☐

Mitosis

☐

**0 3 . 6** Substances used for growth pass through the runners from the parent plant to the offspring plants.

Which **two** substances pass through the runners?

**[2 marks]**

Tick (✓) **two** boxes.

Carbon dioxide

☐

DNA

☐

Insulin

☐

Sugar

☐

Water

☐

**Question 3 continues on the next page**

**Turn over ►**



Sexual reproduction and asexual reproduction each have different advantages for the strawberry plant.

0 3 . 7

Give **one** advantage of reproducing **sexually**.

[1 mark]

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0 3 . 8

Give **one** advantage of reproducing **asexually**.

[1 mark]

---

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10





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**Turn over ►**



0 4

It is important to maintain the water balance of the body.

The volume of water a person gained and lost was measured on a day the person did no exercise.

**Table 2** shows how much water the person gained and lost by different methods on the day.

**Table 2**

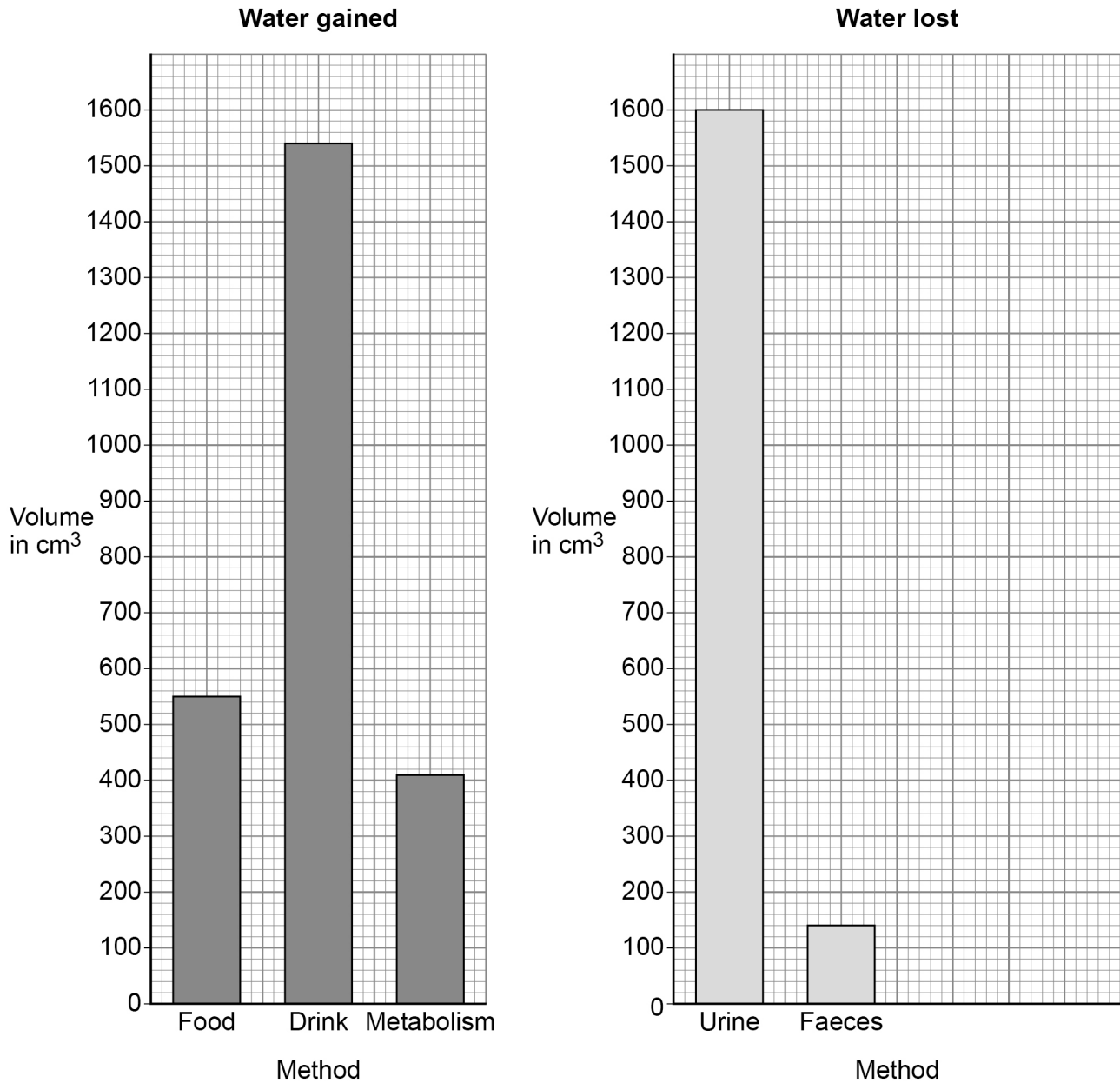
| Water gained |                           |
|--------------|---------------------------|
| Method       | Volume in cm <sup>3</sup> |
| Food         | 550                       |
| Drink        | 1540                      |
| Metabolism   | 410                       |
| <b>Total</b> | 2500                      |

| Water lost   |                           |
|--------------|---------------------------|
| Method       | Volume in cm <sup>3</sup> |
| Urine        | 1600                      |
| Faeces       | 140                       |
| Sweat        | 420                       |
| Breathing    | 340                       |
| <b>Total</b> | 2500                      |



Figure 7 shows some of the data from Table 2.

Figure 7



0 4 . 1

Complete **Figure 7**.

[2 marks]

You should:

- plot the data for sweat and for breathing from **Table 2**
- label each bar.

Question 4 continues on the next page

Turn over ►



**0 4 . 2** On another day, the person ran in a long-distance race.

What would happen to the volume of water lost by sweating on the day of the race?

**[1 mark]**

Tick (✓) **one** box.

Decrease

☐

No change

☐

Increase

☐

**0 4 . 3** The kidneys control the amount of water in the body.

Draw **one** line from each process in the kidneys to the name of that process.

**[3 marks]**

**Process in the kidneys**

**Name of process**

Removes water from the blood

Coordination

Takes excess water out of the body

Excretion

Takes water back into the blood

Filtration

Reabsorption



A person with kidney failure can be treated by dialysis or by a kidney transplant.

- a person needs 3 dialysis sessions each week
- each session can last 6 to 8 hours
- each session has to happen in a hospital.

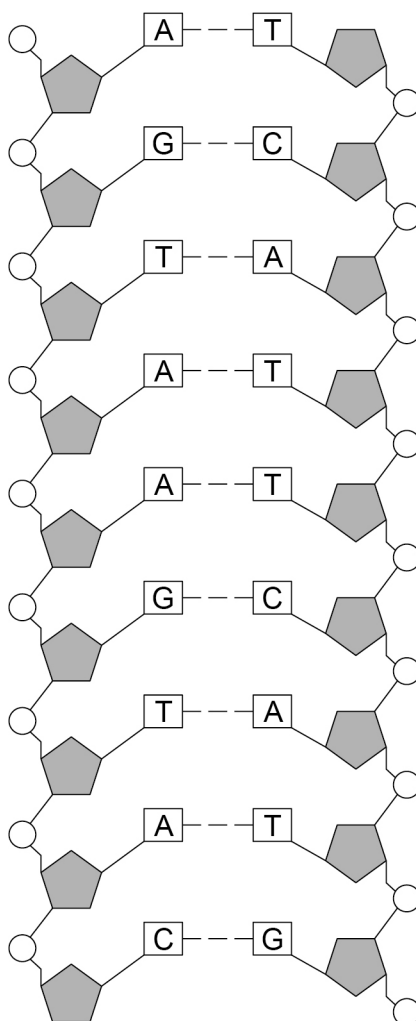
- a suitable donor is needed
- a surgical operation is needed.

Include your own knowledge in your answer.

[illegible]

\_\_\_\_\_

**Turn over for the next question**

**0 5****Figure 8** shows part of a DNA molecule.**Figure 8**

The letters **A**, **C**, **G** and **T** in **Figure 8** represent four different compounds.



**0 5 . 1** What are **A, C, G** and **T** called?

[1 mark]

Tick (✓) **one** box.

Bases

☐

Fatty acids

☐

Sugars

☐

**0 5 . 2** The section of DNA shown in **Figure 8** contains the following sequence of these compounds:

**A G T A A G T A C**

A sequence of three compounds codes for one amino acid.

How many amino acids would this section of DNA code for?

[1 mark]

---

**0 5 . 3** Sometimes a change occurs in the sequence of the compounds **A, C, G** and **T** in the DNA.

What name is given to a change in DNA?

[1 mark]

Tick (✓) **one** box.

Differentiation

☐

Mutation

☐

Natural selection

☐

Turn over ►

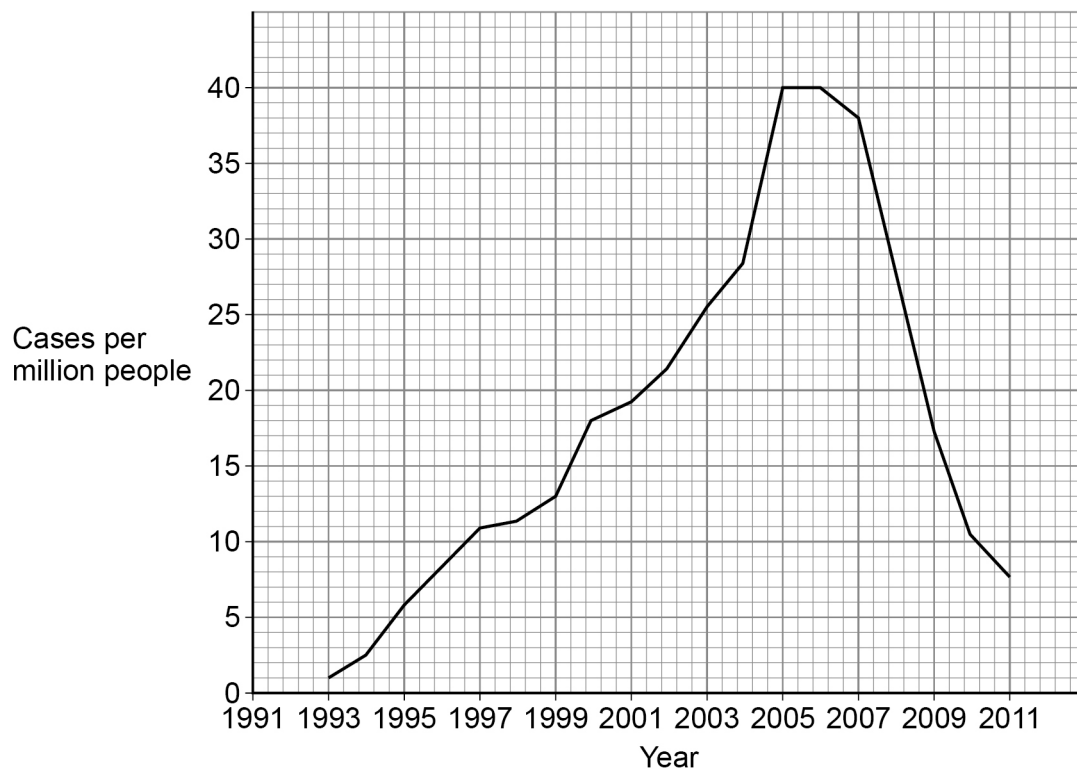


Changes in the DNA of a bacterial pathogen can produce new strains of the pathogen.

Many people have been infected with a bacterial pathogen called MRSA.

**Figure 9** shows how many cases of MRSA occurred in one country from 1993 to 2011.

**Figure 9**



**0 5 . 4**

Calculate the mean rate of increase in MRSA cases per year in the 12 years from 1993 to 2005.

**[3 marks]**

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Mean rate of increase = \_\_\_\_\_ cases per million people per year





0 5 . 5

Most antibiotics will **not** kill MRSA bacteria.Which word describes bacteria that are **not** killed by antibiotics?

[1 mark]

Tick (✓) **one** box.

Immune

☐

Powerful

☐

Resistant

☐

0 5 . 6

**Figure 9** shows that the number of cases of MRSA decreased after 2006.Suggest **one** reason for this decrease.

[1 mark]

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8

Turn over for the next question

Turn over ►



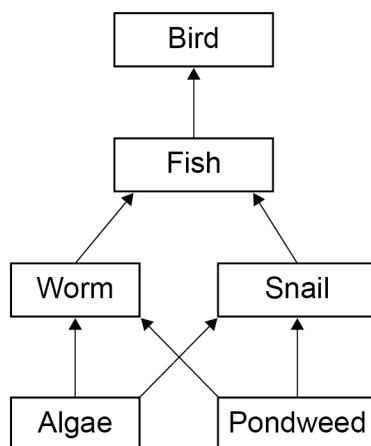
**0 6**

Different species in a habitat may depend on each other for food.

Several food chains may be linked together to form a food web.

**Figure 10** shows a food web in a lake.

**Figure 10**

**0 6****1**

Most organisms in the food web get their energy by eating other organisms.

Where does the pondweed get energy from?

**[1 mark]**

Tick (✓) **one** box.

Carbon dioxide

☐

Mineral ions

☐

Sunlight

☐

Water

☐


**0 6 . 2** Name **one** organism from **Figure 10** that is a primary consumer.

[1 mark]

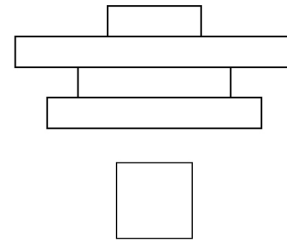
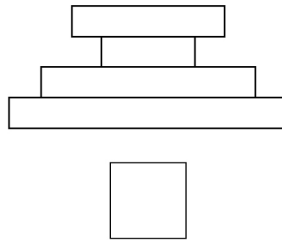
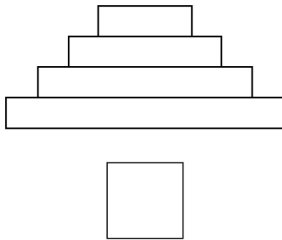
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**0 6 . 3** There are four trophic levels in **Figure 10**.

Which is the correct pyramid of biomass for the food web in **Figure 10**?

[1 mark]

Tick (✓) **one** box.



**0 6 . 4** One of the food chains in **Figure 10** is:

algae → worm → fish → bird

10% of the biomass in each trophic level is transferred to the next trophic level.

What percentage of the biomass in the algae is transferred to the fish?

[1 mark]

Tick (✓) **one** box.

10% ☐

1% ☐

0.1% ☐

**Question 6 continues on the next page**

**Turn over ►**



0 6 . 5

What are **two** ways that **energy** is lost from organisms in the food chain?**[2 marks]**Tick (✓) **two** boxes.

Diffusion

☐

Faeces

☐

Movement

☐

Osmosis

☐

Photosynthesis

☐

0 6 . 6

Scientists counted the number of fish, snails and worms in a sample taken from the lake.

**Table 3** shows the results.**Table 3**

|        | Tally | Number of organisms<br>in the sample |
|--------|-------|--------------------------------------|
| Fish   |       |                                      |
| Snails |       |                                      |
| Worms  |       |                                      |

Complete **Table 3**.**[2 marks]**

8



07

Many farmers keep animals such as cows and chickens.

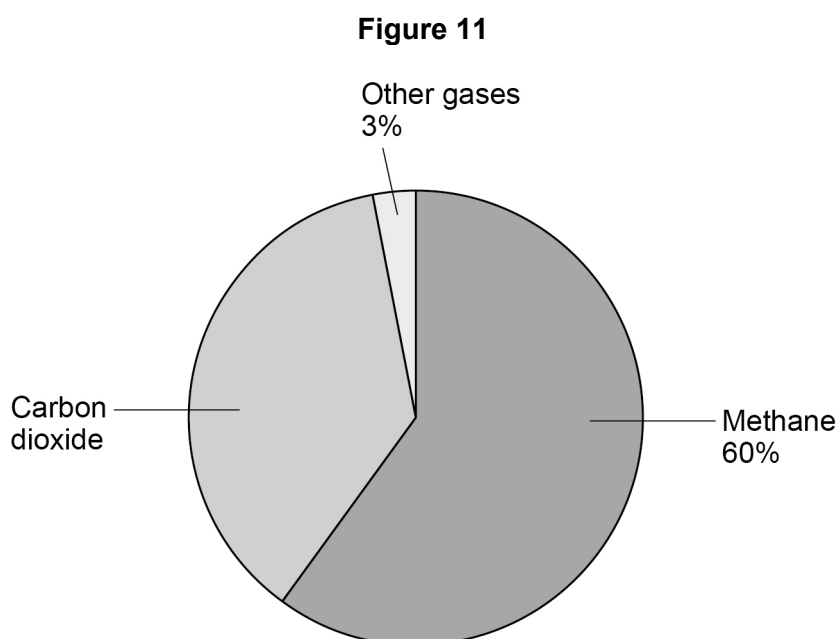
The animals produce a lot of manure (faeces).

The farmer can put the manure into a biogas generator.

In the biogas generator, microorganisms produce biogas.

07.1

**Figure 11** shows the percentages of the gases found in a sample of biogas.



Calculate the percentage of carbon dioxide in the biogas in **Figure 11**.

**[2 marks]**

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Percentage of carbon dioxide = \_\_\_\_\_ %

**Question 7 continues on the next page**

**Turn over ►**



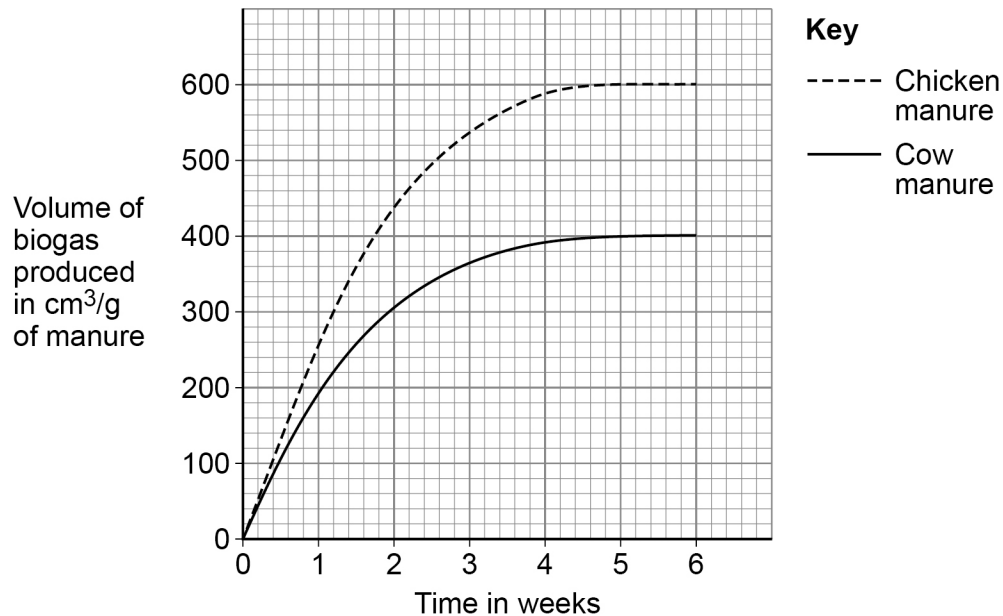
0 7 2

Scientists investigated biogas production from manure produced by cows and by chickens.

The scientists measured the production of biogas for 6 weeks.

**Figure 12** shows the results.

**Figure 12**



The scientists made **three** conclusions from the results.

Give evidence from **Figure 12** to support each conclusion.

**[3 marks]**

**Conclusion 1:** 'It is better to use chicken manure than cow manure for making biogas.'

Evidence \_\_\_\_\_

**Conclusion 2:** 'Biogas production is fastest in the first week.'

Evidence \_\_\_\_\_

**Conclusion 3:** 'After 4 weeks it is a waste of money to run the biogas generator.'

Evidence \_\_\_\_\_



Another group of scientists investigated the effect of adding fish fat to the manure used for biogas production.

Fish fat is a waste product from the sea fishing industry.

**Table 4** shows the results.

**Table 4**

|                | Volume of biogas<br>produced in cm <sup>3</sup> /g | Volume of methane<br>produced in cm <sup>3</sup> /g | Percentage (%) of<br>methane in the biogas |
|----------------|----------------------------------------------------|-----------------------------------------------------|--------------------------------------------|
| No fish fat    | 426                                                | 256                                                 | 60                                         |
| Fish fat added | 999                                                | 599                                                 | 60                                         |

**0 7 . 3** Complete the sentences.

**[3 marks]**

Choose answers from the box.

**decreases      stays the same      increases**

Each answer may be used once, more than once or not at all.

When fish fat is added, the volume of biogas

produced \_\_\_\_\_.

When fish fat is added, the volume of methane

produced \_\_\_\_\_.

When fish fat is added, the percentage of methane in

the biogas \_\_\_\_\_.

**Question 7 continues on the next page**

**Turn over ►**



A farmer has a farm 250 kilometres from the sea.

The farmer has a biogas generator on the farm.

The farmer adds manure to the biogas generator.

0 7 . 4

The farmer decided **not** to add fish fat to the manure in the biogas generator.

Suggest **one** reason why.

[1 mark]

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0 7 . 5

There is some manure left in the biogas generator.

Explain why the farmer spreads the manure on fields where crops will be grown.

[2 marks]

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11





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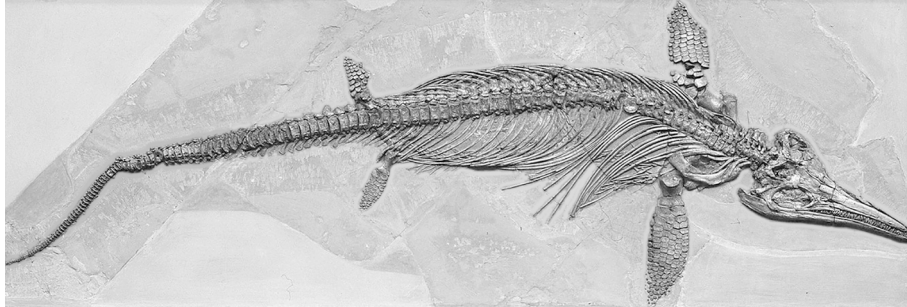


0 8

Ichthyosaurs are reptiles that lived in the sea millions of years ago.

**Figure 13** shows the fossilised remains of an ichthyosaur.

**Figure 13**



0 8 . 1

Suggest how the fossil in **Figure 13** was formed after the ichthyosaur died.

**[2 marks]**

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0 8 . 2

The length of the image of the ichthyosaur in **Figure 13** is 120 mm.

The real length of the ichthyosaur was 17 times longer than the image in **Figure 13**.

Calculate the real length of the ichthyosaur.

Give your answer in metres.

**[3 marks]**

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Real length of ichthyosaur = \_\_\_\_\_ metres



0 8 . 3

**Table 5** gives the classification of the ichthyosaur in **Figure 13**.

**Table 5**

| Classification group | Name            |
|----------------------|-----------------|
| Kingdom              | Animalia        |
|                      | Chordata        |
| Class                | Reptilia        |
| Order                | Ichthyosauria   |
|                      | Ichthyosauridae |
| Genus                | Ichthyosaurus   |
| Species              | intermedius     |

Complete **Table 5**.

**[2 marks]**

Choose answers from the box.

|           |        |        |        |            |
|-----------|--------|--------|--------|------------|
| Community | Family | Mammal | Phylum | Population |
|-----------|--------|--------|--------|------------|

0 8 . 4

Ichthyosaurs were predators.

Ichthyosaurs are now extinct.

Scientists think that extinction of the ichthyosaurs was caused by increased competition with other predators for food.

Suggest **two other** possible causes of extinction of the ichthyosaurs.

**[2 marks]**

1 \_\_\_\_\_

2 \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



**0 9**

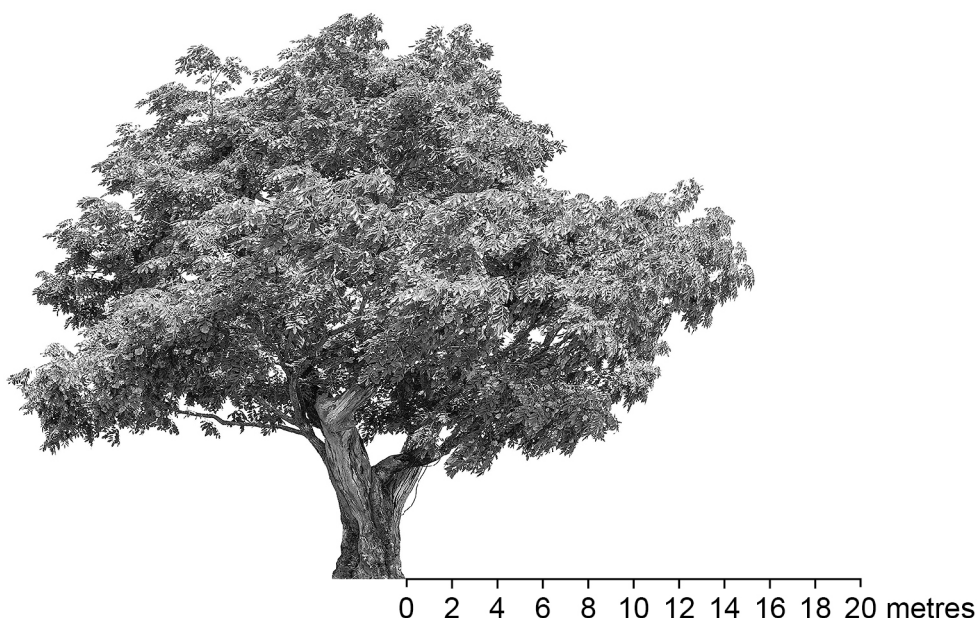
Students investigated how many daisy plants were growing in a field at different distances from a tree.

This is the method used.

1. Place a 20-metre tape measure on the ground, with the tree at 0 metres.
2. Place a 1 m<sup>2</sup> quadrat on the ground every 4 metres along the tape measure.
3. Count the number of daisy plants in each quadrat.
4. Take a soil sample from each quadrat to find the percentage of water in the soil.

**Figure 14** shows the tree and the tape measure.

**Figure 14**



This is the method used for finding the percentage of water in each soil sample (step 4):

5. Weigh an empty container.
6. Place the soil sample in the container and weigh again.
7. Heat the container of soil in an oven at 100 °C for several hours.
8. Allow the container of soil to cool and weigh again.
9. Repeat steps 7 and 8 until there is no further change in mass.

|   |   |   |   |
|---|---|---|---|
| 0 | 9 | . | 1 |
|---|---|---|---|

Suggest why the students repeated steps **7** and **8** until there was no further change in mass.

**[1 mark]**

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**Question 9 continues on the next page**

**Turn over ►**



**Table 6** shows the results.

**Table 6**

|                                       | Distance from the tree in metres |     |     |     |          |
|---------------------------------------|----------------------------------|-----|-----|-----|----------|
|                                       | 4                                | 8   | 12  | 16  | 20       |
| Mass of fresh soil in grams           | 250                              | 266 | 260 | 248 | 252      |
| Mass of dried soil in grams           | 225                              | 234 | 209 | 184 | 181      |
| Mass of water lost from soil in grams | 25                               | 32  | 51  | 64  | 71       |
| Percentage of water in soil           | 10                               | 12  | 20  | 26  | <b>X</b> |
| Number of daisies per m <sup>2</sup>  | 0                                | 7   | 15  | 28  | 32       |

**0 9 . 2** Calculate percentage **X** in **Table 6**.

Give your answer to the nearest whole number.

**[3 marks]**

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Percentage **X** (nearest whole number) = \_\_\_\_\_ %

**0 9 . 3** Describe the effect of distance from the tree on the percentage of water in the soil between 4 metres and 16 metres.

Use **Table 6**.

**[1 mark]**

---



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0 9 . 4

A student concluded:

‘As the water content of the soil increases, so does the number of daisy plants.’

Describe **two** changes to the investigation that would increase the validity of the student’s conclusion.

[2 marks]

1 \_\_\_\_\_

\_\_\_\_\_

2 \_\_\_\_\_

\_\_\_\_\_

0 9 . 5

The percentage of water in the soil is an abiotic factor.

Suggest **three** other **abiotic** factors that might have caused more daisy plants to grow further away from the tree.

Do **not** refer to water in your answer.

[3 marks]

1 \_\_\_\_\_

\_\_\_\_\_

2 \_\_\_\_\_

\_\_\_\_\_

3 \_\_\_\_\_

\_\_\_\_\_

10

Turn over for the next question

Turn over ►



**1 0**

Tropisms help plants survive.

**1 0****1**

What is geotropism?

**[2 marks]**

---

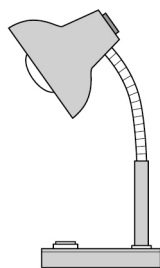
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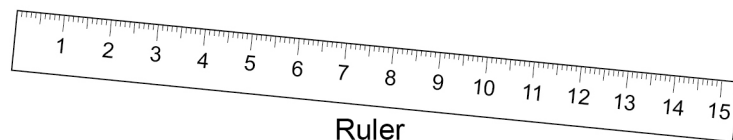
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**1 0****2**

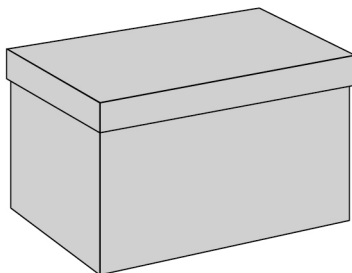
Plan an investigation to find the effect of the direction of light on the growth of plant seedlings.

You may use the equipment shown in **Figure 15** and any other laboratory equipment.**[6 marks]****Figure 15**

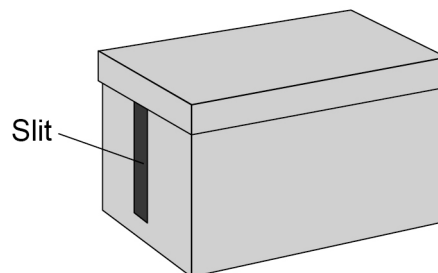
Lamp



Ruler



Cardboard box



Slit

Cardboard box with  
slit cut in one side



**Question 10 continues on the next page**



Plant responses are controlled by hormones.

**1 0 . 3**

Which hormone controls a plant's response to the direction of light?

**[1 mark]**

---

**1 0 . 4**

How does the hormone you named in Question **10.3** control the plant's response to the direction of light?

**[1 mark]**

Tick (✓) **one** box.

All parts of the plant have the same concentration of hormone.

☐

The hormone has an effect when it breaks down.

☐

There is an uneven distribution of the hormone.

☐

**1 0 . 5**

Explain how a plant's response to light helps the plant survive.

**[3 marks]**

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**END OF QUESTIONS**



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