AQA GCSE Biology | 8461

SPECIFICATION POINT 4.7.5.2

Farming techniques

Past-paper questions

Tier	**Foundation**
Question groups	**3**
Available paper years	**2010–2016**

Using this booklet

1. Answer the questions in order and show your working.
2. Original question numbers and marks are retained.
3. Print at actual size (100%) for measuring questions.
4. Use the companion answer booklet to check your work.

Name: _____ **Date:** _____

Whole questions are retained for context, so some parts assess other specification points. Current and legacy sources are labelled. Continue on extra paper if needed.

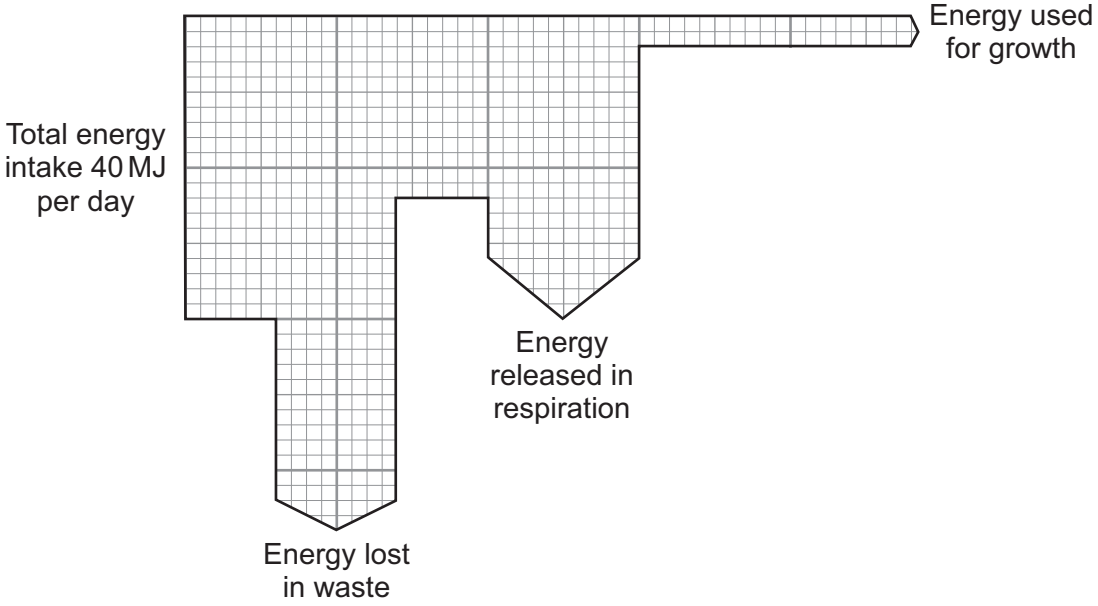
4.7.5.2 Farming techniques

Question 01

June 2010 | BLY2F | Original Q7 | Legacy

7 (a) **Diagram 1** represents what happens to the energy in the food eaten by a herbivore (an animal that eats plants).

Diagram 1



7 (a) (i) How much energy is released in respiration by the herbivore?

.....

.....

Answer ..... MJ per day
(1 mark)

7 (a) (ii) What proportion of the total energy intake of the herbivore is used for growth?

Show clearly how you work out your answer.

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Proportion .....
(2 marks)

7 (b) Give **two** ways in which the energy, released in respiration, is used by a herbivore.

1 .....

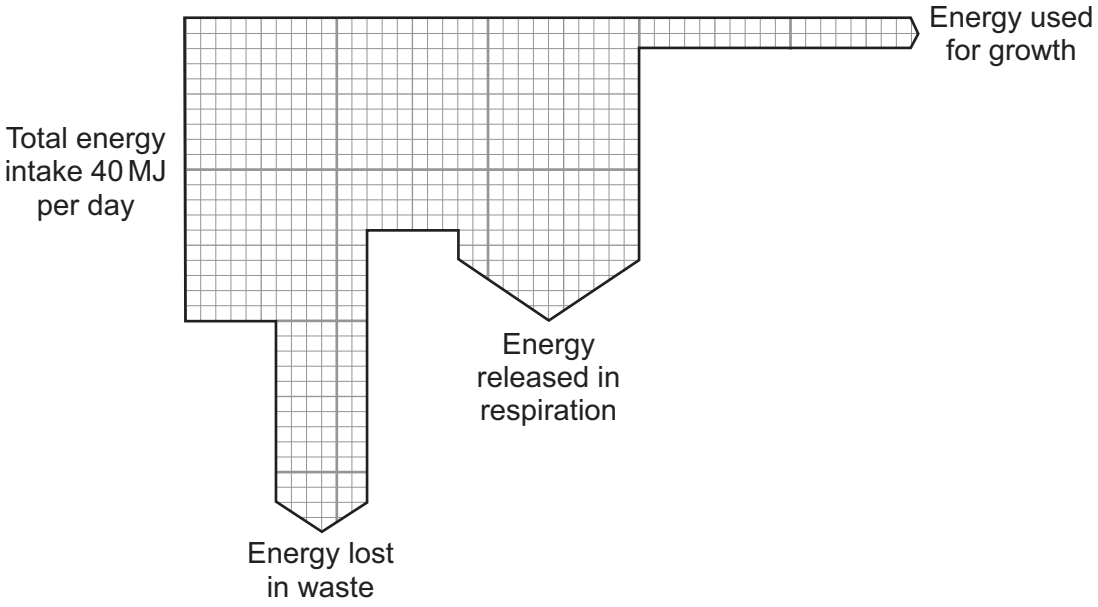
2 .....
(2 marks)

4.7.5.2 Farming techniques

Question 01 · continued

7 (c) **Diagram 2** represents what happens to the energy in the food eaten by a carnivore (an animal that eats other animals).

Diagram 2



The carnivore releases a greater proportion of energy in respiration than the herbivore.

Suggest **one** reason for this.

.....

.....

(1 mark)

7 (d) Some farmers keep their animals outdoors. Other farmers keep their animals indoors.

Keeping farm animals indoors increases the proportion of energy in their food that is converted into growth.

Give **two** reasons why.

1 .....

.....

2 .....

.....

(2 marks)

8

4.7.5.2 Farming techniques

Question 02

June 2013 | BL3FP | Original Q8 | Legacy

8 There are many ways to increase the efficiency of food production.

8 (a) The table shows the energy available to humans from two different food chains.

Food chain	Energy transferred to humans in kJ per hectare of crop
Wheat → humans	900 000
Wheat → pigs → humans	90 000

8 (a) (i) Compare the amount of energy the two food chains transfer to humans.

.....

.....

(1 mark)

8 (a) (ii) Give **one** reason for the difference in the amount of energy the two food chains transfer to humans.

.....

.....

(1 mark)

4.7.5.2 Farming techniques

Question 02 · continued

8 (b) *In this question you will be assessed on using good English, organising information clearly and using specialist terms where appropriate.*

Give methods used in the factory farming of animals.
Explain the advantages and disadvantages of these methods.

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(6 marks)

8

4.7.5.2 Farming techniques

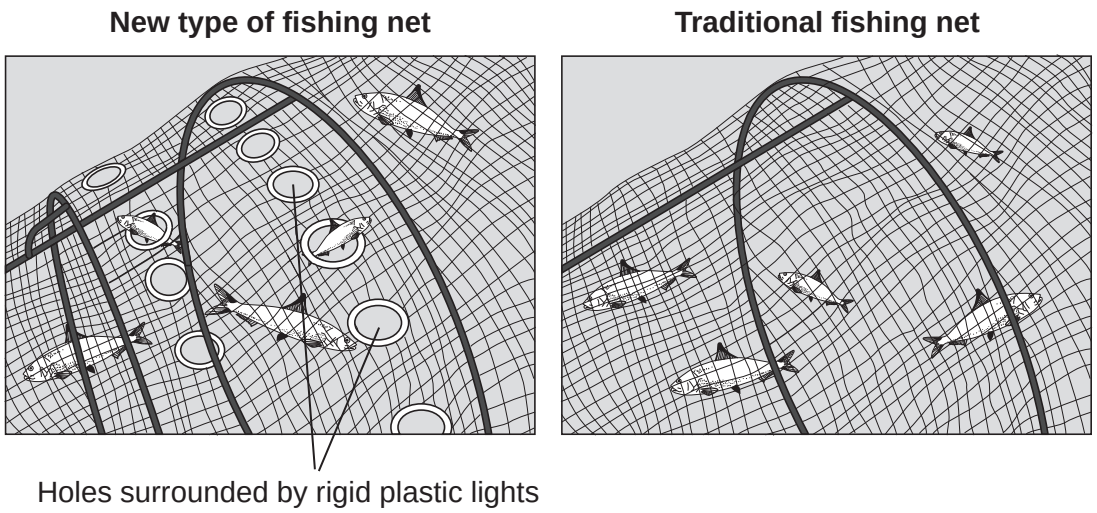
Question 03

June 2016 | BL3FP | Original Q5 | Legacy

5 It is important to conserve fish stocks.

Figure 7 shows a new type of fishing net and a traditional fishing net.

Figure 7



5 (a) (i) Describe how the new type of fishing net helps to conserve fish stocks.

[3 marks]

5 (a) (ii) Give **one** way, other than controlling nets, to reduce overfishing.

[1 mark]

4.7.5.2 Farming techniques

Question 03 · continued

5 (b) Another way to make sure there is food for an increasing human population is to make food production more efficient.

Figure 8 shows how some cows are farmed.

Figure 8



5 (b) (i) Use information from **Figure 8** to suggest **two** ways in which this type of farming reduces energy loss from the cows.

[2 marks]

1 _____

_____

2 _____

_____

5 (b) (ii) Give **two** reasons why some people disagree with farming cows in this way.

[2 marks]

1 _____

_____

2 _____

_____

8