

**AQA, OCR, Edexcel**

# GCSE Science

## GCSE Biology

Organising and Ecosystem  
Questions

Name:

**M M E**

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Total Marks: /21

Q1: What term can be used to describe the feeding relationships within a community?

\_\_\_\_\_

(1 mark)

Q2: What is a producer?

\_\_\_\_\_

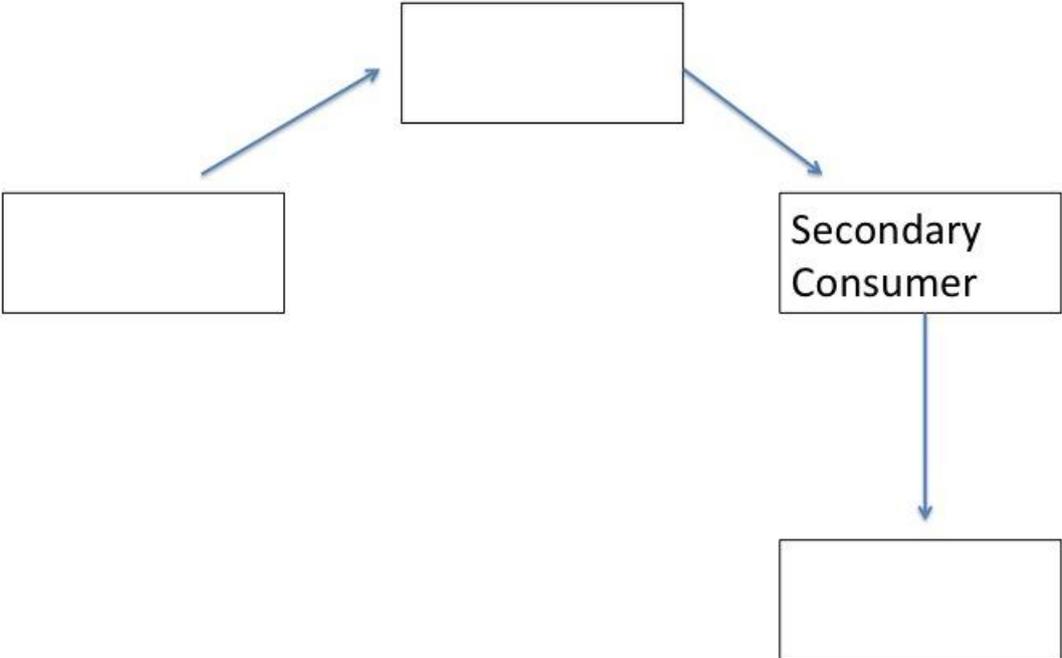
(1 mark)

Q3: Explain why a producer is the first part of a food chain?

\_\_\_\_\_  
\_\_\_\_\_

(1 mark)

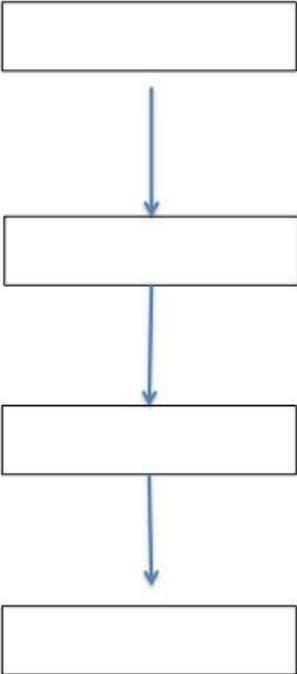
Q4: Fill in the missing levels of a food chain.



(3 marks)

Q5: Using the organisms below create a food chain.

- Fish
- Seal
- Phytoplankton
- Killer Whale



(2 marks)

Q6: Describe the trends in the populations of prey and predators seen within a community.

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(5 marks)

Visit <http://www.mathsmadeeasy.co.uk/> for more fantastic resources.

Q7: Quadrats can be used to sample an area to determine population size.

Students want to determine mean, median and mode for the number of slugs present in a garden.

<b>3</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>7</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>6</b>	<b>1</b>
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i) Using the table above calculate the mean distribution of slugs.

(2marks)

ii) Calculate the median for the slug population. Show your working.

(2 marks)

iii) Calculate the mode for the slug population. Show your working.

(2marks)

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Q8: Explain how a transect is used for sampling the distribution and give an example of a habitat a transect can be used in.

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(2 marks)

Q9: How can the validity of the sampling be ensured?

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(1 mark)