

GCSE Biology B (Twenty First Century Science)

J257/02 Depth in Biology (Foundation)

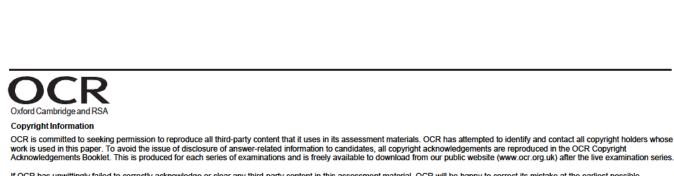
Question Set 15

	Growing and transporting food releases greenhouse gases. These gases cause the Earth to warm up, which can have harmful effects on biodiversity.	
	The bar chart shows the amount of greenhouse gases released during the production of different foods.	
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(a)	Which type of milk releases the most greenhouse gases per serving, and how much does it release?	
	Type of milk =	
(b)	Greenhouse gases released per serving =kg For his breakfast, Alex has sausages, tomatoes and coffee with cow's milk.	[2]
	The total amount of greenhouse gases released by Alex's breakfast is 3 kg.	
	The amount of greenhouse gases released by the sausages is 1.8 kg.	
	What percentage of the total amount of greenhouse gases released by the production of Alex's breakfast is caused by the production of the sausages?	
	Percentage = %	[2]

1 Our food and drink choices affect the environment.

(c)	(i)	The next day Alex decides to have eggs instead of sausages.	
		Explain why this change will reduce the effect his breakfast has on the environment.	
		Use evidence from the graph to support your answer	[3]
	(ii)	Scientists have lots of data on the amount of greenhouse gases released by the production of different foods.	
		Give two reasons why it is important that scientists share this data with the public.	[2]
(d)		Greenhouse gases can cause changes in ecosystems.	[2]
		Explain why these changes could reduce our supply of food	[4]

Total Marks for Question Set 15: 13



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