3	Green plants are found at the start of all food chains.						
3 (a)	Complete the sentences.						
3 (a) (i)	The source of energy for green plants is radiation from the						
3 (a) (ii)	Green plants absorb some of the light energy that reaches them for a process called						
3 (b)	Draw a ring around the correct answer to complete each sentence.						
		chei	mical				
3 (b) (i)	This process transfers light energy into	sour	nd	energy	<i>'</i> .		
		elec	trical				
						(1 mark)	
	carbon diox	ide.					
3 (b) (ii)	The process uses the gas oxygen.						
	water.						
						(1 mark)	
					carbohydrates.		
3 (b) (iii)	The process produces carbon-containin	process produces carbon-containing compounds called minerals.					
					salts.		
						(1 mark)	



3 (c)	The amount of living material (biomass) at each stage in a food chain is less than at the previous stage.	
	The diagram shows a food chain.	
	oak tree	
	Give two ways in which biomass is lost in this food chain.	
	Tick (✓) two boxes.	
	As carbon dioxide from the caterpillar	
	As food eaten by the hawk	
	As oxygen from the oak tree	
	As faeces (droppings) from the blue-tit (2 marks)	
	Turn over for the next question	L

1 (b) Table 1 shows three food chains, A, B and C.

Table 1

	Food chain
A	plants — → sheep — → human
В	plants — → grasshoppers — → frogs — → trout — → human
С	plants — → human

1 (b) (i)	In which food chain, A , B or C , will the greatest proportion of biomass and energy of
	the plants be passed to humans? [1 mark]
1 (b) (ii)	Give reasons why the food chain that you chose in part (b)(i) passes on the greatest proportion of biomass and energy to humans. [3 marks]

6

Turn over for the next question

Turn over ▶

