Answer all questions in the spaces provided.					
0 1	A food for pet dogs contains meat from chickens.				
	Figure 1 shows the food chain.	ure 1 shows the food chain.			
	Figure 1				
	Wheat plant — Chicken	Dog			
0 1.1	What is the trophic level of the dog?	[4 mork]			
	Tick (✓) one box.	[1 mark]			
	1 2 3				
0 1.2	Draw one line from each organism to the description food chain.				
		[3 marks]			
	Organism	Description			
		Herbivore			
	Chicken				
		Producer			
	Dog				
		Secondary consumer			
	Wheat				
		Tertiary consumer			



0 1.3	Name the process wheat plants use to make glucose.	
0 1.4	Some of the chicken biomass does not become part of the dog's biomass. What is one reason why? Tick (✓) one box.	[1 mark]
	Some of the chicken is used for the dog to grow	
	The dog produces waste in faeces The wheat is eaten by the dog	
	Question 1 continues on the next page	

Turn over ►



	A new dog food has been developed.	
	The new dog food is made from insects.	
	The insects in the dog food factory are fed on vegetables.	
0 1.5	Which pyramid of biomass represents the vegetables, insects and dogs in this food chain?	
	Tick (✓) one box. [1 mark]	



0 1.6	Beef from cows is used to make some dog food.	outsi b	
	Cows release methane.		
	The company that makes dog food from insects made the statement:		
	'Dog food made from insects is more sustainable than dog food made from beef.'		
	Which are two reasons that support the company's statement? [2 marks]		
	Tick (✓) two boxes.		
	Dogs will eat more insects than cows		
	Farming cows needs more land than farming insects		
	Fewer cows being farmed will slow down global warming		
	Fewer insects than cows are needed to produce dog food		
	The food chain for dog food made from insects has more trophic levels	9	
	Turn over for the next question		

Question	Answers	Extra information	Mark	AO / Spec. Ref.
01.1	3		1	AO2 4.7.4.1 4.7.4.2
01.2	Organism Chicken Dog Wheat additional line from a box on the leaders	Producer Secondary consumer Tertiary consumer eft negates the mark for that box	3	AO2 4.7.4.1
01.3	photosynthesis		1	AO1 4.7.2.1
01.4	the dog produces waste in faeces		1	AO2 4.7.4.3
01.5			1	AO2 4.7.4.2
01.6	farming cows needs more land than farming insects		1	AO3 4.7.3.4
	fewer cows being farmed will slow down global warming		1	AO3 4.7.3.5
Total			9	