Parts of a Plant

1. Label these parts of this plant:



2. What jobs do these pa	arts of a plant do?			
a) The petals:				
b) The stem:				
c) The roots:				3 marks
3. Where is food made ir Circle one word.	n this plant?			
Roots	Stem	Petals	Leaves	1 mark
				Total for this page



25 total marks

twink

3 marks

Date:





8. Name 2 things that a	plant needs to grow:					
a)						
b)						
				2 marks		
	Planning an Investigation We need to investigate whether a plant will grow quicker in a warm place than a					
cold place.	e whether a plant will gi	row quicker in a warm	place than a			
9. What is the one varia	ble we will change in th	is investigation?				
				1 mark		
	10. Name two variables that need to stay the same:					
b)						
Here are the results of		Plant in the warm	Plant in the	2 marks		
	Plant in the cold shed by the window	classroom by the window	Headteacher's office by the hot radiator			
Week 1 Height (cm)	0	2	2			
Week 2 Height (cm)	1	4	4			
Week 3 Height (cm)	2	6	died			
11. How tall do you thin	k the plant in the cold s	hed will be in week 4?				
			cm	1 mark		
12. How tall do you thin	k the plant in the warm	classroom will be in w	eek 4?			
Cm 1 mark						
				Total for this page		
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13. Why do you think the plant near the hot radiator died?	
	1 mark
14. Write a conclusion from these results.	
	1 mark
15. Explain why people grow things in greenhouses.	
	2 marks





question	answer	marks	notes	
1. Label the	1. Label these parts of this plant.			
	Flower Leaves Stem Roots	3	Allow for small errors in spelling if it is obvious what the word is. 1 mark = 2 correct 2 marks = 3 correct 3 marks = 4 correct	
2. What jobs	s do these parts of a plant do?			
а	The petals attract insects.	1	Accept either answer for b and c.	
b	The stem holds up the plant/carries water to the flower.	1	Accept water or nutrients.	
C The roots anchors the plant/carries water or nutrients.		1	Wording does not have to match exactly this example.	
3. Where are	3. Where are food and nutrients made in this plant?			
Leaves		1	Do not give marks if more than one is circled.	
4. What is the process of making food in a green plant called?				
Photosynthesis		1	Allow for errors in spelling if it is obvious what the word is.	
5. Mrs Nerg helps us remember what all living things do, name 2 things all living things do.				
	 1 mark for each answer from any of the following: Movement Reproduction Sensitivity Nutrition Excretion Respiration Growth 	2	Do not accept 'breathe' for respiration. Do not accept 'eat' for nutrition.	



	Γ			
question	answer	marks	notes	
6. Fill in the	6. Fill in the missing parts of this lifecycle.			
7. Name two	 1 mark for each space filled in correctly: Germination acceptable answers: The seed starts to grow Green shoots appear/show Pollination acceptable answers: Bees/insects take pollen from one plant to another Pollen fertilises the egg Pollen moved from one plant to another by birds, bats or wind. 	2	Do not accept: The plant grows (rather than 'starts' to grow) Accept bee or insect. Also accept other forms of pollination e.g. birds, bats, wind.	
	 1 mark each for any two from: Wind People/animals (burrs) Water (coconuts) Explosive/self-propelled Eaten by animals/in animal excretion 	2	Do not accept soil.	
8. Name 2 th	nings that a plant needs to grow:			
	1 mark each for any two from: • Warmth • Light • Water • Air • Nutrients	2		
9. What is th	e one variable we will change in this investigation	?		
	1 mark for: The place where the plant is kept.	1		
10. Name tv	10. Name two variables that need to stay the same:			
 1 mark each for any two from: amount of water given type of plant/seed amount of soil size of plant pot amount of light amount of air amount of nutrients/plant feed 		2		
11. How tall do you think the plant in the cold shed will be in week 4?				
	1 mark for any of: • 3cm • 3 • Any answer 2.5cm>5cm	1		



question	answer	marks	notes	
12. How tall	12. How tall do you think the plant in the warm classroom will be in week 4?			
	1 mark for any of: • 8cm • 8 • Any answer 8.5cm>11.5cm	1		
13. Why do	13. Why do you think the plant near the hot radiator died?			
	1 mark for: • Too hot	1	Do not give marks for other responses that would indicate an unfair test e.g. 'not watered', 'someone broke it', etc.	
14. Write a c	conclusion from these results.			
	 1 marks for answers that mention both the temperature and the height/speed of growth for example: The coldest place makes the plants grow slower A warm place makes plants grow higher/quicker. 	1	No marks for answers that only mention either the temperature or the height.	
15. Explain v	15. Explain why people grow things in greenhouses.			
	 2 marks for answers that link the findings of this investigation to a warm greenhouse: Plants grow better in a warm place and a greenhouse is warm 1 marks for answers that only mention one element: Greenhouses are warm Plants like it warm 	2		

