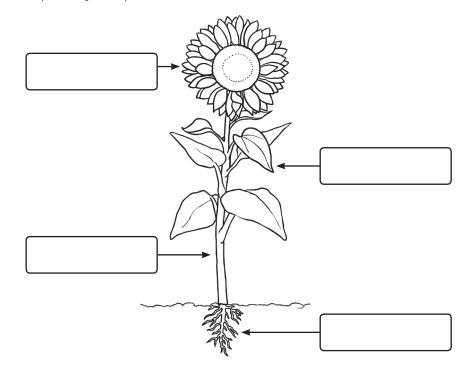
Science Assessment Year 3: Plants

Parts of a Plant

1. Label these parts of this plant:



2. What jobs do these parts of a plant do?

a) ⁻	The petals:	
-----------------	-------------	--

3 marks

3. Where are food and nutrients made in this plant? Circle one word.

Roots	Stem	Petals	Leaves



4. What is the process of making food in a green plant called?	1 mark
Living Things 5. Mrs Nerg helps us remember what all living things do, name 2	2 things all living things do.
a)	
b)	2 marks
The Lifecycle of a Plant	
6. Fill in the missing parts of this lifecycle.	
Seed Dispersal The fully formed seeds are moved away from the parent plant. Fertilisation and Seed Formation Pollen from the anther lands on the stigma and travels down the style.	Growing and Flowering The plant grows bigger and forms a plant. nation 2 marks
7. Name two ways that seeds can be dispersed: a)	
b)	2 marks

• • • • • •			
_	• • • • • • • •	• • • • • • •	• • • • • • •
inning an Invest			
Ve need to investig old place.	jate whether a plant will	l grow quicker in a wa	rm place than a
What is the one var	iable we will change in th	is investigation?	
ere are the results	of the investigation: Plant in the cold shed by the window		
Week 1 Height	Ocm	2cm	2cm
	1cm	4cm	4cm
Week 2 Height	1 6116	4011	4011

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
	Total for

Answer Sheet: Science Assessment Year 3:





question	answer	marks	notes	
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 jok	os 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.	
С	The roots anchors the plant/carries water or nutrients.	1	Wording does not have to match exactly this example.	
3. Where a	re 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 ca	alled?		
	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.	



question	answer	marks	notes		
6. Fill in the	6. Fill in the missing parts of this lifecycle.				
	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.		
7. Name tw	vo ways that seeds can be dispersed:				
	 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	things that a plant needs to grow:				
	1 mark each for any two from: Warmth Light Water Air Nutrients	2			
9. What is t	the one variable we will change in this investi	gation?			
	1 mark for: The place where the plant is kept.	1			
10. Name t	wo 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	11. How tall do you think the plant in the cold shed will be in week 4?				
	1 mark for any of: 3 cm Any answer 2.5cm>5cm	1			



question	answer	marks	notes		
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	conclusion from these results.				
	1 marks for answers that mention both the temperature and the height/speed of growth for example:	1	No marks for answers that only mention either the temperature or the height.		
15. Explain	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			