Natural Sciences and Technology · Grade 4

Memorandum · Term 1

TOTAL
54
MARKS

Marking guidelines

1. Award the full mark for a correct answer, even if the learner words it differently.
2. Accept any scientifically correct answer, including one not given in the memorandum.
3. Where a question asks for two or more items, award one mark per correct item.
4. For diagrams, award the mark if the label points at the correct part, even with a spelling error.
5. Do not deduct marks for spelling unless the word takes on a different scientific meaning.

Question	Answer	Marks	Marking note
QUESTION 1 · Multiple choice · 5 marks			
1.1	b. The roots	**1**	
1.2	c. Its wings	**1**	
1.3	b. Its gills	**1**	
1.4	b. A stone	**1**	
1.5	c. habitat	**1**	
QUESTION 2 · Matching · 4 marks			
2.1	1 = B (stem); 2 = C (leaf); 3 = A (fins); 4 = E (nest). D (root) is left over.	**4**	*1 mark each.*
QUESTION 3 · Plants and their parts · 10 marks			
3.1	A = flower; B = leaf; C = stem; D = roots	**4**	*1 mark each.*
3.2	The leaves catch sunlight and make food for the plant.	**2**	*1 mark for sunlight, 1 mark for making food.*
3.3	The flower makes the seeds (1) that grow into new plants — also accept fruit (1). Pollination / attracting insects may be accepted for one mark but is not required.	**2**	*1 mark for makes seeds/fruit, 1 mark for new plants. Pollination / attracting insects may be accepted for one mark but is not required.*

Question	Answer	Marks	Marking note
3.4	Any two of: light; water; air. 1 mark each. Also accept soil or nutrients.	**2**	*Any two. 1 mark each.*
QUESTION 4 · Animals and habitats · 6 marks			
4.1	Fish = in water (river, dam or sea); Camel = in the desert; Monkey = in the forest (trees)	**3**	*1 mark each.*
4.2	For example: thick fur keeps it warm; colour lets it hide; strong paws for digging; wings for flying; gills to breathe under water.	**2**	*Any two sensible adaptations. 1 mark each.*
4.3	It can see and breathe while the rest of its body stays hidden under the water, so it can sneak up on prey.	**1**	
QUESTION 5 · Living things and their needs · 6 marks			
5.1	Dry leaf = was once alive (dead); mould = living; river = never alive (non-living)	**3**	*1 mark each. A river moves, but it cannot feed, grow or reproduce.*
5.2	A cutting	**1**	
5.3	Any two: water; shelter or a place to hide; a safe place to have and raise its babies; safety from enemies	**2**	*Do not accept "food". 1 mark each.*
QUESTION 6 · Investigation: what a plant needs · 5 marks			
6.1	a. Sunlight (or the place — sun versus dark). b. The amount of water (also accept: the same kind of soil, the same kind of plant, the same size pots). c. How tall the plants grow / the number of healthy green leaves / how green they stay.	**3**	*1 mark each.*
6.2	They will grow tall and thin with pale yellow leaves, and they will be weak — a plant needs light to make its food and to stay green (2).	**2**	*1 mark for the prediction, 1 for the reason.*
QUESTION 7 · Technology: design an animal shelter · 7 marks			
7.1	Any two sensible requirements — for example: it must protect the bird from rain and wind; it must be high enough that cats cannot get in; the opening must be small enough for only the bird; it must be firmly fixed.	**2**	*1 mark each.*
7.2	1 mark for a clear sketch. 2 marks for labels: 3 or more correct labels = 2 marks; 1–2 correct labels = 1 mark.	**3**	

Question	Answer	Marks	Marking note
7.3	Any sensible choice with a reason — for example wood, because it is strong and protects against the weather; or plastic, because it does not let water through.	**2**	*1 mark for the material, 1 for the reason.*
QUESTION 8 · Life processes, shelters and graphs · 11 marks			
8.1	Any three: moving; feeding; growing; breathing; reproducing; responding to the surroundings; getting rid of waste.	**3**	*1 mark each.*
8.2	Living. The seed is only resting; when it gets water and warmth, it starts to grow again.	**2**	*1 mark for living, 1 for the explanation.*
8.3	A hole in a tree = natural; A dog kennel = made by people; A cave = natural	**3**	*1 mark each.*
8.4	Three bars (8, 5 and 2 leaves). Horizontal axis: the place (sun, shade, dark cupboard). Vertical axis: number of healthy green leaves. 1 mark for the bars, 1 for each axis label.	**3**	*1 mark for the bars, 1 per labelled axis.*

Total **54 marks**



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