Natural Sciences · Grade 7

Memorandum · Term 2

TOTAL
38
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 · 3 marks			
1.1	b. distillation	**1**	
1.2	a. neutral	**1**	
1.3	b. filtration	**1**	
QUESTION 2 · Matching · 4 marks			
2.1	1 = E (element); 2 = D (metal); 3 = B (mixture); 4 = C (acid)	**4**	*1 mark each.*
QUESTION 3 · Terminology · 3 marks			
3.1	Base; Recycling; Solution (also accept: homogeneous mixture)	**3**	*1 mark each.*
QUESTION 4 · Diagrams · 10 marks			
4.1	Magnesium = metal; Boron = semi-metal; Chlorine = non-metal	**3**	*1 mark each.*
4.2	A = the funnel; B = the filter paper; C = the beaker (with the filtrate)	**3**	*1 mark each.*
4.3	Gravel and sand = sieving (also accept: hand sorting); Salt and water = evaporation; Iron and sulphur = magnet; Ink = chromatography	**4**	*1 mark each.*

Question	Answer	Marks	Marking note
QUESTION 5 · Longer questions · 4 marks			
5.1	Copper conducts electricity well (1); copper conducts heat well, so the food heats quickly (1); plastic and wood are poor conductors of heat (insulators) (1), so the handle stays cool and safe to hold (1).	**4**	*1 mark per point.*
QUESTION 6 · Acids, bases and the periodic table · 10 marks			
6.1	Lemon juice = acid; Soapy water = base; Pure water = neutral; Vinegar = acid	**4**	*1 mark each.*
6.2	A substance that changes colour to show whether something is an acid or a base. Example: litmus paper or red cabbage juice.	**2**	*1 mark for the explanation, 1 for the example.*
6.3	H = hydrogen; O = oxygen; Fe = iron; Na = sodium	**4**	*1 mark each.*
QUESTION 7 · Heating and boiling point · 4 marks			
7.1	a. 100 °C b. At 8 minutes (also accept: between 6 and 8 minutes) c. It stays at 100 °C — the energy now goes into changing the water from liquid to gas, not into making it hotter. d. Water vapour (steam)	**4**	*1 mark each.*

Total **38 marks**



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