

GCSE Chemistry A (Gateway Science) J248/04 Chemistry A C4-C6 and C7 (Higher Tier)

Question Set 26

- 1 A student investigates the corrosion of different metals.
 - She places a small strip of each metal in different samples of air.
 - She leaves the metals for one week before collecting her results.

Look at her table of results.

Metal	Original appearance of metal	Appearance of metal after one week in			
		moist acidic air	moist alkaline air	dry air	moist air
aluminium	shiny silver	dull silver	dull silver	shiny silver	shiny silver
copper	shiny red- orange	dull red- orange	green red- orange	shiny red- orange	dull red- orange
iron	shiny silver	brown coating	brown coating	shiny silver	brown coating
magnesium	shiny silver	whitish coating	dull silver	shiny silver	dull silver
zinc	shiny silver	dark coating	dark coating	shiny silver	dull silver

- (a) Suggest, with a reason, **one** change to the experimental procedure that would improve the quality of the results.
- (b) Explain the conclusions that can be made from her results. [3]

[1]

Total Marks for Question Set 26: 4

Resource Materials

0

(9 7 N N 14.00 114.00 114.00 115. (2) 4 5 B B boron 10.8 13 A 1 13 A 1 13 A 1 2 27.0 31 B Ga gallum 69.7 49 In In Indiam Indiam 1114.8 81 T 1 T 1 1 14.8 E 10.4 204.4 204.4 3 The Periodic Table of the Elements 30 Zn Zn Zn Znc 65.4 48 Cd Cd Cd Hg Hg Hg Hg Hg Cnor.up 112.4 Cnor.up 11 29 Cu copper 63.5 47 Ag silver 1107.9 79 T9 T9 T111 T111 Rg 9 27 27 Co cobalt 58.9 45 Rh rhodium 102.9 1r infetum 192.2 109 MR MR rhodium 192.2 109 MR MR methrerium methrerium 25 Mn nanganese 54.9 43 Tc 75 Re thenium 186.2 107 Bh bohrium Key atomic number Symbol name relative atomic mass 21 Sc Scandium scandium 45.0 39 Y yttrium 88.9 57-71 89-103 (5)

2 He hellum hellum hellum 4.0 10 10 Ne neoral 20.2 20.2 18 Ar argon 39.9 36 Xr krypton 83.8 54 Xr krypton 83.8 86 Rn radon rad



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