



ASSESSMENT and
QUALIFICATIONS
ALLIANCE

Mark scheme
November 2003

GCSE

Science (Modular) Double Award and Chemistry

Module 05

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Metals: Foundation Tier

Question	Key
One	1 – aluminium 2 – iron 3 – chromium 4 – copper
Two	1 – aluminium oxide 2 – cryolite 3 – aluminium 4 – carbon
Three	1 – atoms 2 – metals 3 – ions 4 – ores
Four	1 – add a little metal oxide to the acid 2 – metal oxide begins to react with acid to produce a solution of the salt 3 – continue to add metal oxide until no more will react 4 – filter to remove excess metal oxide
Five	1 – metal Y 2 – metal X 3 – metal W 4 – metal Z
Six	the main ore of aluminium is bauxite the main ore of iron is haematite
Seven	hydrogen forms positive ions hydrogen is released when Group 1 metals react with water
Eight	8.1 – B, 8.2 – B, 8.3 – D, 8.4 – D
Nine	9.1 – C, 9.2 – A, 9.3 – B, 9.4 – B
Ten	10.1 – D, 10.2 – D, 10.3 – A, 10.4 – D

Metals: Higher Tier

Question	Key
One	1 – metal Y 2 – metal X 3 – metal W 4 – metal Z
Two	1 – copper nitrate 2 – copper oxide 3 – copper chloride 4 – copper
Three	hydrogen forms positive ions hydrogen is released when Group 1 metals react with water
Four	magnesium atoms become magnesium ions the magnesium plate will gradually become thinner
Five	5.1 – B, 5.2 – B, 5.3 – D, 5.4 – D
Six	6.1 – C, 6.2 – A, 6.3 – B, 6.4 – B
Seven	7.1 – D, 7.2 – D, 7.3 – A, 7.4 – D
Eight	8.1 – B, 8.2 – A, 8.3 – C, 8.4 – C
Nine	9.1 – C, 9.2 – C, 9.3 – B, 9.4 – B
Ten	10.1 – C, 10.2 – B, 10.3 – B, 10.4 – B