



ASSESSMENT and
QUALIFICATIONS
ALLIANCE

Mark scheme
November 2003

GCSE

Science (Modular) Single Award

Module 15

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Materials and Reactions: Foundation Tier

Question	Key
One	1 – water (vapour) 2 – sulphur dioxide 3 – oxygen 4 – carbon dioxide
Two	1 – atoms 2 – metals 3 – ores 4 – alloys
Three	1 – mixture 2 – compound 3 – element 4 – fraction
Four	1 – add a few drops of indicator which turns purple 2 – fill the burette with the acid 3 – slowly add the hydrochloric acid to the alkali with stirring 4 – stop adding acid when the indicator turns green
Five	1 – metal Y 2 – metal X 3 – metal W 4 – metal Z
Six	hydrocarbons with small molecules flow easily hydrocarbons with the smallest molecules have the lowest boiling points
Seven	haematite contains an oxide of iron iron can be extracted from haematite
Eight	8.1 – C, 8.2 – A, 8.3 – D, 8.4 – C
Nine	9.1 – C, 9.2 – A, 9.3 – B, 9.4 – B
Ten	10.1 – D, 10.2 – D, 10.3 – D, 10.4 – A

Materials and Reactions: Higher Tier

Question	Key
One	1 – metal Y 2 – metal X 3 – metal W 4 – metal Z
Two	1 – ethene 2 – an unsaturated hydrocarbon with 3 carbon atoms in each molecule 3 – a saturated hydrocarbon with 3 carbon atoms in each molecule 4 – a polymer
Three	haematite contains an oxide of iron iron can be extracted from haematite
Four	poly(ethene) can be produced by joining together alkene monomers poly(ethene) is not biodegradable
Five	5.1 – C, 5.2 – A, 5.3 – D, 5.4 – C
Six	6.1 – C, 6.2 – A, 6.3 – B, 6.4 – B
Seven	7.1 – D, 7.2 – D, 7.3 – D, 7.4 – A
Eight	8.1 – B, 8.2 – A, 8.3 – C, 8.4 – D
Nine	9.1 – C, 9.2 – C, 9.3 – B, 9.4 – B
Ten	10.1 – C, 10.2 – A, 10.3 – D, 10.4 – C