

GCSE

Science: (Modular)
Single Award and Chemistry

Module 15

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Materials and Reactions: Foundation Tier

Question No.	KEY
One	1 – limestone 2 – waste gases 3 – molten iron 4 – hot air
Two	1 – mixture 2 – compound 3 – molecule 4 – element
Three	1 – sodium chloride 2 – hydrochloric acid 3 – sulphuric acid 4 – potassium hydroxide
Four	1 – argon 2 – iron 3 – carbon 4 – potassium
Five	1 – cement 2 – concrete 3 – carbon dioxide 4 – slaked lime
Six	air concrete
Seven	columns of elements with similar properties are called Groups most of the elements are arranged in order of their relative atomic masses
Eight	8.1 – D, 8.2 – B, 8.3 – C, 8.4 – A
Nine	9.1 – C, 9.2 – C, 9.3 – C, 9.4 – D
Ten	10.1 – D, 10.2 – D, 10.3 – A, 10.4 – D

Materials and Reactions: Higher Tier

Question No.	KEY
One	1 – cement 2 – concrete 3 – carbon dioxide 4 – slaked lime
Two	1 – R 2 – S 3 – P 4 – Q
Three	columns of elements with similar properties are called Groups most of the elements are arranged in order of their relative atomic masses
Four	calcium carbonate → calcium oxide + carbon dioxide decane (C ₁₀ H ₂₂) → ethene + octane (C ₈ H ₁₈)
Five	5.1 – D, 5.2 – B, 5.3 – C, 5.4 – A
Six	6.1 – C, 6.2 – C, 6.3 – C, 6.4 – D
Seven	7.1 – D, 7.2 – D, 7.3 – A, 7.4 – D
Eight	8.1 – A, 8.2 – C, 8.3 – B, 8.4 – D
Nine	9.1 – C, 9.2 – C, 9.3 – C, 9.4 – B
Ten	10.1 – C, 10.2 – A, 10.3 – A, 10.4 – B