

**GCSE**

**Science (Modular)  
Single Award and Chemistry**

**Module 15**

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**Materials and Reactions: Foundation Tier**

Question No.	KEY
One	1 – poly(ethene) 2 – oxygen 3 – air 4 – carbon
Two	1 – limestone 2 – slaked lime 3 – quicklime 4 – haematite
Three	1 – neutralisation 2 – decomposition 3 – condensation 4 – evaporation
Four	1 – P 2 – Q 3 – R 4 – S
Five	1 – metal Z 2 – metal Y 3 – metal X 4 – metal W
Six	the broken pieces of pottery act as a catalyst the paraffin is vaporised before it is cracked
Seven	diesel oil boils at a lower temperature than lubricating oil the hydrocarbons in each fraction have similar boiling points
Eight	8.1 – B, 8.2 – B, 8.3 – C, 8.4 – A
Nine	9.1 – D, 9.2 – C, 9.3 – B, 9.4 – D
Ten	10.1 – C, 10.2 – D, 10.3 – C, 10.4 – B

**Materials and Reactions: Higher Tier**

Question No.	KEY
One	1 – metal Z 2 – metal Y 3 – metal X 4 – metal W
Two	1 – copper 2 – copper oxide 3 – oxygen 4 – carbon monoxide
Three	diesel oil boils at a lower temperature than lubricating oil the hydrocarbons in each fraction have similar boiling points
Four	it burns to produce carbon dioxide and water it is a saturated compound
Five	5.1 – B, 5.2 – B, 5.3 – C, 5.4 – A
Six	6.1 – D, 6.2 – C, 6.3 – B, 6.4 – D
Seven	7.1 – C, 7.2 – D, 7.3 – C, 7.4 – B
Eight	8.1 – C, 8.2 – D, 8.3 – B, 8.4 – D
Nine	9.1 – A, 9.2 – C, 9.3 – C, 9.4 – B
Ten	10.1 – A, 10.2 – C, 10.3 – B, 10.4 – A