

ALLIANCE

Mark scheme November 2003

# GCSE

## Science (Modular) Double Award and Chemistry

### Module 06

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#### Earth Materials: Foundation Tier

Question	Key
One	1 – nitrogen
	2 – sulphur dioxide
	3 – oxygen
	4 – carbon dioxide
Two	1 – atmosphere
	2 – crust
	3 – mantle
	4 – core
Three	1 – mixture
	2 – compound
	3 – element
	4 – fraction
Г	1 – continental drift
Four	
	2 – convection currents 3 – radioactive processes
	4 – volcanic eruptions
	4 – volcane cruptions
Five	1 – intense volcanic activity
1100	2 - water vapour condensed to form the oceans
	3 - colonisation of the Earth by plants
	4 – methane and ammonia reacted with oxygen
Six	hydrocarbons with small molecules flow easily
	hydrocarbons with the smallest molecules have the lowest boiling points
Seven	they have shapes which fit together quite closely
	they have similar fossils in the rocks near coastlines
Eight	8.1 - C, 8.2 - A, 8.3 - D, 8.4 - C
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Nine	9.1 - C, 9.2 - A, 9.3 - C, 9.4 - A
Ten	10.1 – B, 10.2 – A, 10.3 – A, 10.4 – B

### Earth Materials: Higher Tier

Question	Key
One	1 – intense volcanic activity
	2 – water vapour condensed to form the oceans
	3 – colonisation of the Earth by plants
	4 – methane and ammonia reacted with oxygen
Two	1 – ethene
	2 - an unsaturated hydrocarbon with 3 carbon atoms in each molecule
	3 – an alkane
	4 – a polymer
Thurst	there have a minimum fit to eath an ancite all solar
Three	they have shapes which fit together quite closely
	they have similar fossils in the rocks near coastlines
Four	poly(ethene) can be produced by joining together alkene monomers
roui	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 - C, 6.4 - A
Seven	7.1 – B, 7.2 – A, 7.3 – A, 7.4 – B
Eight	8.1 - D, 8.2 - A, 8.3 - B, 8.4 - A
Nine	9.1 - D, 9.2 - C, 9.3 - B, 9.4 - A
Ten	10.1 - C, $10.2 - A$ , $10.3 - D$ , $10.4 - B$