Mark scheme
November 2003

GCSE

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
Four	1 – continental drift 2 – convection currents 3 – radioactive processes 4 – volcanic eruptions
Five	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
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
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
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 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