



Rewarding Learning

General Certificate of Secondary Education
2011–2012

Science: Single Award (Modular)

Materials and their Management

Module 4

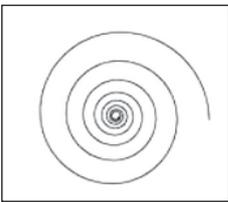
Foundation Tier

[GSC41]

TUESDAY 28 FEBRUARY 2012

9.30 am–10.15 am

**MARK
SCHEME**

			AVAILABLE MARKS
5	(a) Carbon [1] Hydrogen [1] either order	[2]	
	(b) It will run out/there is a limited amount	[1]	
	(c) Any two of; Solar/wind/wave/tidal/nuclear/geothermal/HEP/biomass/hydrogen/sun	[2]	
	(d) (i) Hydrocarbon [1]		
	(ii) Water [1]		
	(iii) Global Warming [1]	[3]	8
6	(a) any one of: lighter/doesn't break easily/cheaper/easily moulded/safer qualified	[1]	
	(b) any two of: Bottle banks/household bins for recycling/advertising/fines; rewards	[2]	
	(c) any two of: saves energy/money/saves raw materials/reduces/stops use of landfill	[2]	
	(d) (i) Breaks down/decays/rots [1] by microbes/decomposers/microorganism/bacteria/fungus [1]	[2]	
	(ii) any named suitable material e.g. cotton, wool, paper/wood/food [1]		8
7	(a)  Any spiral shape	[1]	
	(b) Gently press finger on tile/surface [1] Sprinkle some carbon/black powder on the paper [1] Use a (paint) brush to remove excess powder gently [1] Place a piece of (sticky) tape on the fingerprint and remove [1]	[4]	
	(c) Any 2 from Hair [1] Blood [1] DNA/skin/saliva/sperm [1] Footprint [1] Fibres [1] Paint/metal [1] Or other suitable	[2]	7
Total			45