

9E Making Materials

Draw a ring around a number of stars for each statement. If you are very confident about a statement, draw your ring around all the stars. If you do not know anything about a statement do not draw a ring.

Topic	At the end of the unit:		
9Ea			
	Recall some examples of ceramics and explain how the properties of different ceramics make them useful.		* * * * *
	Explain how the crystal size depends on the speed of cooling.		* * * * *
	Explain how the properties of a ceramic depend on its bonding and structure.		* * * * *
9Eb			
	Recall examples of polymers and link properties to their uses.		* * * * *
	Describe how monomers polymerise.		* * * * *
	Classify changes as exothermic or endothermic.		* * * * *
	Explain how the properties of a polymer depend on its bonding and structure.		* * * * *
9Eb Working Scientifically			
	Describe the process of peer review.		* * * * *
	Explain the main advantages and disadvantages of peer review.		* * * * *
9Ec			
	Describe what a composite is, give some examples, and explain their properties and uses.		* * * * *
	Describe what happens in thermal decomposition reactions.		* * * * *
	Identify and explain exothermic and endothermic reactions in terms of energy transfer.		* * * * *
	Model chemical reactions using formulae and state symbols.		* * * * *
9Ed			
	Explain the causes and effects of acid rain and the greenhouse effect.		* * * * *
	Recall some problems with the disposal of synthetic non-biodegradable polymers.		* * * * *
	Explain how toxins can cause harm by biomagnification through food chains.		* * * * *
	Explain how some of the problems of making and using materials can be overcome.		* * * * *
9Ee			
	Explain some of the problems of landfill sites.		* * * * *
	Explain some of the advantages of recycling materials.		* * * * *
	Describe how polymers, metals, glass, concrete and paper can be recycled.		* * * * *