

Map of the module: Polymer Revolution

This shows the relationship between the Chemical Storylines, the Activities and the Chemical Ideas. To aid planning, laboratory-based practical work is indicated by (P), activities involving IT skills are indicated by (IT) and those developing study skills by (S).

ACTIVITIES		CHEMICAL STORYLINE		CHEMICAL IDEAS	
PR1.1 Making a polymer (teacher demonstration) (P)	PR1 THE START OF THE REVOLUTION	5.6 The structure and properties of polymers (section on addition polymers, thermosets, elastomers and fibres)			
PR1.2 Polymer party		12.2 Alkenes			
PR2.1 Testing for unsaturation using bromine (P)		5.3 Bonds between molecules: temporary and permanent dipoles (revisited)			
PR2.2 Electrophilic addition reaction mechanism					
PR2.3 Check your knowledge and understanding (Part 1) (S)	PR4 DISSOLVING POLYMERS	5.4 Bonds between molecules: hydrogen bonding			
PR4.1 Deflecting jets (P)		13.2 Alcohols and ethers			
PR4.2 Viscosity in alcohols (P)					
PR4.3 Oxidation of ethanol (P)	PR5 POLYMERS THAT OUTDO NATURE				
PR4.4 Reactions of alcohols					
PR4.5 Now you see it ... (P)					
PR4.6 Making 'slime' (P)					
PR5.1 <i>E/Z</i> and <i>cis/trans</i> isomers		5.6 The structure and properties of polymers (section on copolymers)			
PR5.2 Interpreting infrared spectra	PR6 SUMMARY	3.4 <i>E/Z</i> isomerism			
		6.4 Infrared spectroscopy			
PR6 Check your knowledge and understanding (Part 2) (S)					