Map of the unit: The Polymer Revolution

This shows the relationship between the Storyline, 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	Some important polymers: introductory data (IT)	PR1	THE START OF THE REVOLUTION		
PR2	Making poly(phenylethene) (Optional extension) (P)	PR2	THE POLYTHENE STORY	12.2	Alkenes
				5.3	Forces between molecules: temporary and permanent dipoles
				5.5	The structure and properties of polymers (first part on addition polymers only)
PR3	Using spaghetti to model polymer structure (P)	PR3	TOWARDS HIGH DENSITY POLYMERS		
		PR4	THE TEFLON MAN		
PR5.1	Deflecting jets (P)	PR5	DISSOLVING POLYMERS	5.4	Forces between molecules:
PR5.2	Viscosity in alcohols (P)				hydrogen bonding
PR5.3	Now you see it (P)			13.4a	The –OH group in alcohols
PR5.4	Making 'slime' (P)			13.2	Alcohols and ethers (revision)
PR5.5	Oxidation of alcohols				
PR6	Poly(pyrrole) - a conducting polymer (P)	PR6	POLYMERS THAT SHINE IN THE DARK	3.5	Geometric isomerism
PR7	Check your notes on The Polymer Revolution (S)	PR7	SUMMARY		