

Map of the unit: *Designer Polymers*

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
	DP1 DESIGNER POLYMERS	
DP2.1 Making nylon (P) DP2.2 Taking nylon apart (P)	DP2 THE INVENTION OF NYLON	13.3 <i>Carboxylic acids and their derivatives (revision)</i> 13.4a,b <i>The –OH group in alcohols, phenols and acids (revision)</i> 13.8 Amines and amides 5.4 <i>Forces between molecules: hydrogen bonding (revision)</i>
	DP3 POLYESTERS: FROM CLOTHES TO BOTTLES	13.5 Esters (part revision)
DP4 Comparing models of nylon–6,6 and Kevlar	DP4 KEVLAR	
DP5 Bubble gum - or bubble glass?	DP5 TAKING TEMPERATURE INTO ACCOUNT	5.5 The structure and properties of polymers
	DP6 POLY(ETHENE) BY DESIGN	
	DP7 THROWING IT AWAY OR NOT	
DP8 Check your notes on Designer Polymers (S)	DP8 SUMMARY	