

Map of the module: The Atmosphere

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
A1	WHAT'S IN THE AIR?	A1	
A2.1	What substances can act as sunscreens?	A2 SCREENING THE SUN	6.2 What happens when radiation interacts with matter?
A2.2	Investigating sunscreens (P)		
A2.3	What is the effect of the atmosphere on the Sun's radiation?		
A3.1	The photodissociation of bromine (optional teacher demonstration) (P)	A3 OZONE: A VITAL SUNSCREEN	6.3 Radiation and radicals 10.1 Factors affecting reaction rates 10.2 The effect of temperature on rate 10.5 What is a catalyst? (revisited) 10.6 How do catalysts work?
A3.2	Investigating the reaction between bromine and cyclohexane (P)		
A3.3	How do the concentration and temperature affect the rate of a chemical reaction? (P)		
A3.4	The effect of a homogeneous catalyst on the rate of a reaction (teacher demonstration) (P)		
A3.5	Check your knowledge and understanding (Part 1) (S)		
A4	The link between CFCs and ozone depletion (S)	A4 THE CFC STORY	
		A5 WHAT IS THE STATE OF THE OZONE LAYER NOW?	
A6.1	Which are the greenhouse gases?	A6 THE GREENHOUSE EFFECT	
A6.2	Simulating the greenhouse effect (P) (IT)		
		A7 TROUBLE IN THE TROPOSPHERE	
		A8 KEEPING THE WINDOW OPEN	
A9.1	The effect of concentration changes on chemical equilibria (P)	A9 FOCUS ON CARBON DIOXIDE	7.1 Chemical equilibrium 5.2 Molecules and networks
A9.2	Structures and properties – similarities and differences		
A9.3	Controlling carbon dioxide (IT)		
A10.1	Reviewing radiation	A10 SUMMARY	
A10.2	Check your knowledge and understanding (Part 2) (S)		