

Map of the unit: *The Atmosphere*

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
	A1 WHAT'S IN THE AIR?	
A2.1 What substances can act as sunscreens? A2.2 Investigating sunscreens (P) A2.3 What is the effect of the atmosphere on the Sun's radiation?	A2 SCREENING THE SUN	6.2 What happens when radiation interacts with matter?
A3.1 More about ozone A3.2 The photodissociation of bromine (Optional teacher demonstration) (P) A3.3 Investigating the reaction between bromine and cyclohexane (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 10.4 <i>What is a catalyst? (revision)</i> 10.5 How do catalysts work?
A4.1 How do halogenoalkanes differ in reactivity? (P) A4.2 Making a halogenoalkane (P) A4.3 Designing refrigerants (IT)	A4 THE CFC STORY	13.1 Halogenoalkanes
A5 Chemistry in the stratosphere (S)	A5 HOW BAD IS THE OZONE CRISIS?	
A6 Which are the greenhouse gases?	A6 TROUBLE IN THE TROPOSPHERE	
	A7 KEEPING THE WINDOW OPEN	
A8.1 The effect of concentration changes on chemical equilibria (P) A8.2 Measuring the concentration of carbon dioxide in air samples	A8 FOCUS ON CARBON DIOXIDE	7.1 Chemical equilibrium
A9 Controlling carbon dioxide (IT)	A9 COPING WITH CARBON	
A10 Check you notes on The Atmosphere (S)	A10 SUMMARY	