Map of the unit: The Oceans

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	
O1.1	What is the relationship between a solvent and the substances that dissolve in it? (P)	**O1**	THE EDGE OF THE LAND	***5.1***	*Ions in solids and solutions (revision*)
O1.2	What changes occur when an ionic solid dissolves? (P)			**3.2**	**The sizes of ions**
O1.3	What factors affect the enthalpy change of formation of an ionic compound? (IT)			**4.5**	Energy changes in solution
				4.6	The Born-Haber cycle
		O2	WIDER STILL AND DEEPER		
O3.1	The enthalpy change of vaporisation of water (P)	**O3**	OCEANS OF ENERGY	**4.4**	Energy, entropy and equilibrium
O3.2	What crystals form when a solution is cooled? (P)			***5.4***	*Forces between molecules: hydrogen bonding (revision)*
O4.1	Finding out more about weak acids (P)	**O4**	A SAFE PLACE TO GROW	***7.1***	*Chemical equilibrium (revision)*
O4.2	Investigating some buffer solutions (P)			***7.2***	*Equilibria and concentrations (revision)*
				8.1	*Acid-base reactions (revision)*
				7.7	Solubility equilibria
				11.2	*The s block: Groups 1 and 2 (revision)*
				8.2	Weak acids and pH
				8.3	Buffer solutions
O5	Check your notes on **The Oceans** (S)	**O5**	SUMMARY		