

**Suggested Experiment Order for:
Federal Chemistry, A Course for 'O' Level 3rd Edition by Christopher N. Prescott**

Federal Unit	Page in text book	Suggested MicroChem Lab
2.2 Changes of State	p. 16	2. Melting Points
2.4 Kinetic Theory: Particles on the Move	p. 20	9. Charles's Law (Note: Charles's Law is not directly covered in the text.)
2.4 Kinetic Theory: Particles on the Move	p. 20	8. Boyle's Law (Note: Boyle's Law is not directly covered in the text.)
3.3 Testing the Purity of Substances	p. 33	1. Paper Chromatography
6.7 Ions and Ionic Bonds: The Transfer of Electrons	p. 73	3. Electrical Conductivity of Several Solutions
7.9 Chemical Equations: A Summary of Chemical Reaction	p. 89	4. Mole Ratios
8.12 Moles and Titration	p. 107	12. A Microscale Titration
9.5b Electrolysis of Concentrated Sodium Chloride Solution (Brine)	p. 119	7. Decomposition
9.10 Chemical to Electrical Energy: Cells and Batteries	p. 124	17. Galvanic Cells
11.3 Factors Which Affect the Speed of a Chemical Reaction	p. 147	16. Reaction Rates: Temperature
11.3 Factors Which Affect the Speed of a Chemical Reaction	p. 149	15. Reaction Rates: Concentration
12.2 Redox Reactions: Reduction and Oxidation at the Same Time	p. 162	6. Oxidation-Reduction
13.3 Strong and Weak Acids: Fully or Partially Ionised	p. 173	14. A Buffer Solution
13.5 pH Scale: The Strength of an Acid or Alkali	p. 175	11. PH and PH Indicators
13.7 Neutralisation: Reaction of Hydrogen Ions and Hydroxide Ions	p. 177	13. Molar Mass by Titration
14.3 Preparation of Soluble Salts	p. 187	10. Solubility Product Constant
14.4 Preparation of Insoluble Salts: Ionic Precipitation	p. 190	5. Double replacement Reactions