

Chemistry Careers			
Pharmacologist	Doctor or nurse		
Research Scientist	Analytical chemist		
Chemistry teacher	Forensic Scientist		
Nanotechnologi st	Toxicologist		
Environmental analyst	Air quality research		
Biochemist	Chemical Engineer		

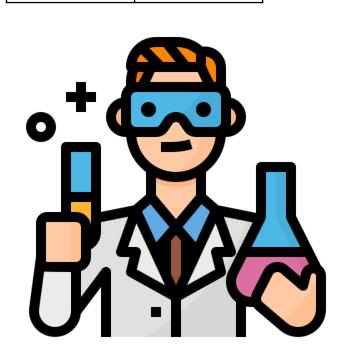


Curriculum Links			
	Maths		MFL
	English		IT
	P.E		RE
	Geography		Careers
	Art		PHSE
	Design		Physics
	Music		Biology

Required Practicals

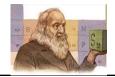
- 1 Make up a volumetric solution and carry out a simple acidbase titration
- 2 Measurement of an enthalpy change
- 3 Investigation of how the rate of a reaction changes with temperature
- 4 Carry out simple test-tube reactions to identify:
- cations Group 2, NH₄+
- anions Group 7 (halide ions), OH⁻, CO₃²⁻, SO₄²⁻
- 5 Distillation of a product from a reaction
- 6 Tests for alcohol, aldehyde, alkene and carboxylic acid
- 7 Measuring the rate of reaction:
- by an initial rate method
- · by a continuous monitoring method
- 8 Measuring the EMF of an electrochemical cell
- 9 Investigate how pH changes when a weak acid reacts with a strong base and when a strong acid reacts with a weak base
- 10 Preparation of:
- · a pure organic solid and test of its purity
- a pure organic liquid
- 11 Carry out simple test-tube reactions to identify transition metal ions in aqueous solution
- 12 Separation of species by thin-layer chromatography





Read like a Chemist The periodic table - Primo Levi Why do chemical reactions happen - James Keeler Creations of Fire - Cathy Cobb 50 chemistry ideas you need to know - Hayley Birch The disappearing spoon and other true tales from the periodic table - Sam Keen

Mendeleev's Dream – Paul strathern



Napoleon's buttons: How 17 molecules changed history - Penny Le Couteur

Periodic tales: The curious lives of elements - Hugh Aldersey Williams