Work schedule

1.1 Term 1

1.1.1 Matter and materials

Days	Content	Activity	Date planned	Date completed
3 days	UNIT 1 MACROSCOPIC PROPERTIES OF MATTER			
		Activity 1 P. 15 Case study P. 16 – 17		
	Mixtures: homogeneous and heterogeneous	Practical activity 1 P. 19 – 20		
	Pure substances: elements and compounds	Activity 2 P. 21 – 22 Practical activity 2 P. 22 – 23		
	Names and formulae of substances	Activity 3 P. 28 Exercise 1 P. 29 – 31		
	Properties of materials	Practical activity 3 P. 32 – 33		
	Metals, metalloids and non-metals	Activity 4 P. 34		
	Electric conductors, metalloids and insulators	Experiment 1 P. 35 – 36		
	Thermal conductors and insulators	Experiment 2 P. 37 – 38		
	Magnetic and non-magnetic materials	Experiment 3 P. 39 Exercise 2 P. 41 – 42 Summary P. 43 Mind maps P. 44		
3 days	UNIT 2 STATES OF MATTER AND THE KINETIC MOLECULAR THEORY States of matter			
	Periods	Practical activity 4 P. 45 – 46		
	Different states	Practical activity 5 P. 51 Exercise 3 P. 52 – 53 Experiment 4 P. 53 – 56		
	Kinetic molecular theory	Exercise 4 P. 57 – 59 Summary P. 60 – 61 Mind maps P. 62		

Days	Content	Activity	Date planned	Date completed
6 days	UNIT 3 THE ATOM: THE BASIC BUILDING BLOCK OF ALL MATTER Atomic model Atomic structure Isotopes Electron configuration	 Activity 5 P. 65 – 66 Activity 6 P. 68 Exercise 5 P. 70 – 72 Exercise 6 P. 75 – 78 Summary P. 78 – 80 Mind maps P. 81 – 82		
6 days	UNIT 4 THE PERIODIC TABLE Position of elements in the Periodic Table Similarities in chemical properties	 Activity 7 P. 89 Activity 8 P. 93 Exercise 7 P. 94 – 97 Summary P. 98 – 100 Mind maps P. 101 – 102		
6 days	UNIT 5 CHEMICAL BONDING Covalent bonding Ionic bonding Metal bonding	 Exercise 8 P. 105 – 106 Practical activity 6 P. 107 – 108 Exercise 9 P. 108 – 110 Summary P. 110		

Matter and materials	Revise matter and classification: Materials, heterogeneous and homogeneous mixtures, pure substances, names and formulae, metals and non-metals, electrical and thermal conductors and insulators, magnetic and non-magnetic materials. States of matter and the kinetic molecular theory Atomic structure: Models of the atom, atomic mass and diameter, protons, neutrons and electrons, isotopes, energy quantization and electron configuration Periodic Table: Position of the elements, similarities in chemical properties in groups, electron configuration in groups Chemical bonding: covalent bonding, ionic bonding, metallic bonding.

Matter and Materials: 24 days

Formal assessment (experiment: 1 day

Administration: 1 day