

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 Mixtures: homogeneous and heterogeneous Pure substances: elements and compounds Names and formulae of substances Properties of materials Metals, metalloids and non-metals Electric conductors, metalloids and insulators Thermal conductors and insulators Magnetic and non-magnetic materials	Activity 1 P. 15 Case study P. 16 – 17 Practical activity 1 P. 19 – 20 Activity 2 P. 21 – 22 Practical activity 2 P. 22 – 23 Activity 3 P. 28 Exercise 1 P. 29 – 31 Practical activity 3 P. 32 – 33 Activity 4 P. 34 Experiment 1 P. 35 – 36 Experiment 2 P. 37 – 38 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 Different states Kinetic molecular theory	Practical activity 4 P. 45 – 46 Practical activity 5 P. 51 Exercise 3 P. 52 – 53 Experiment 4 P. 53 – 56 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.
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Matter and Materials: 24 days

Formal assessment (experiment: 1 day

Administration: 1 day

