1 Cells and organisation

Chapter B1 Cell structure and transport

- B1.1 The world of the microscope
- B1.2 Animal and plant cells
- B1.3 Eukaryotic and prokaryotic cells
- B1.4 Specialisation in animal cells
- B1.5 Specialisation in plant cells
- B1.6 Diffusion
- B1.7 Osmosis
- B1.8 Osmosis in plants
- B1.9 Active transport
- B1.10 Exchanging materialsB1 Summary questionsB1 Practice questions

Chapter B2 Cell division

- B2.1 Cell division
- B2.2 Growth and differentiation
- B2.3 Stem cells
- B2.4 Stem cell dilemmas
 - B2 Summary questions
 - **B2** Practice questions

Chapter B3 Organisation and the digestive system

- **B3.1** Tissues and organs
- B3.2 The human digestive system
- B3.3 The chemistry of food
- B3.4 Catalysts and enzymes
- B3.5 Factors affecting enzyme action
- B3.6 How the digestive system works
- B3.7 Making digestion efficient
 - **B3** Summary questions
 - **B3** Practice questions

1 At	oms, bonding, and moles	2
Chapter C1 Atomic structure 4		
C1.1	Atoms	4
C1.2	Chemical equations	6
C1.3	Separating mixtures	8
C1.4	Fractional distillation and paper chromatography	10
C1.5	History of the atom	12
C1.6	Structure of the atom	14
C1.7	Ions, atoms, and isotopes	16
C1.8	Electronic structures	18
	C1 Summary questions	20
	C1 Practice questions	21
Chapter C2 The periodic table		22
C2.1	Development of the periodic table	22
C2.2	Electronic structures and the periodic table	24
C2.3	Group 1 – the alkali metals	26
C2.4	Group 7 – the halogens	28
C2.5	Explaining trends	30
C2.6	The transition elements	32
	C2 Summary questions	34
	C2 Practice questions	35
Chapt	er C3 Structure and bonding	36
C3.1	States of matter	36
C3.2	Atoms into ions	38
C3.3	Ionic bonding	40
C3.4	Giant ionic structures	42
C3.5	Covalent bonding	44
C3.6	Structure of simple molecules	46
C3.7	Giant covalent structures	48
C3.8	Fullerenes and graphene	50
C3.9	Bonding in metals	52
C3.10		54
C3.11		56
C3.12		58
and the second second	C3 Summary questions	60
	C3 Practice questions	61