

Generic work for Science for Year 7 and 8

Our online Kerboodle Activate textbooks have the units C3 (in the Chemistry textbook), P3 (in the Physics textbooks) and B3 (in the biology textbooks). These are really useful for KS3 students to complete as they either provide a link to how science works in the real world or are a good bridge between KS3 and GCSE.

Each double page in these sections contain information for students to read and then in text and summary questions for students to answer.

Students will know how to log on to their Kerboodle pages but if they need their password resetting, they can contact their Science teacher or Mrs Ryan.

A screenshot of the Biology textbook area is shown below:

Contents			
Introduction			iv
Working Scientifically			
1.1 Asking scientific questions	3	1.4 Analysing data	8
1.2 Planning investigations	4	1.5 Evaluating data	10
1.3 Recording data	6		
Biology B1			
Biology B1 Unit Opener			12
Chapter 1: Cells			
1.1 Observing cells	14	1.4 Movement of substances (osmosis)	20
1.2 Plant and animal cells	16	1.5 Invertebrate organisms	22
1.3 Specialised cells	18	1.6 B1 Chapter 1 Summary	24
Chapter 2: Structure and function of body systems			
2.1 Levels of organisation	26	2.5 Movement: joints	34
2.2 Gas exchange	28	2.6 Movement: muscles	36
2.3 Breathing	30	2.7 B1 Chapter 2 Summary	38
2.4 Skeleton	32		
Chapter 3: Reproduction			
3.1 Adolescence	40	3.6 Flowers and pollination	50
3.2 Reproductive systems	42	3.7 Fertilisation and germination	52
3.3 Fertilisation and implantation	44	3.8 Seed dispersal	54
3.4 Development of a fetus	46	3.9 B1 Chapter 3 Summary	56
3.5 The menstrual cycle	48		
Biology B2			
Biology B2 Unit Opener			58
Chapter 1: Health and lifestyle			
1.1 Nutrition	60	1.6 Drugs	70
1.2 Food tests	62	1.7 Alcohol	72
1.3 Unhealthy diet	64	1.8 Smoking	74
1.4 Digestive system	66	1.9 B2 Chapter 1 Summary	76
1.5 Bacteria and enzymes in digestion	68		
Chapter 2: Ecosystem processes			
2.1 Photosynthesis	78	2.6 Anaerobic respiration	88
2.2 Food chains	80	2.7 Food chains and webs	90
2.3 Plant mineral	82	2.8 Disruption to food chains and webs	92
2.4 Chemosynthesis	84	2.9 Ecosystems	94
2.5 Aerobic respiration	86	2.10 B2 Chapter 2 Summary	96
Chapter 3: Adaptation and inheritance			
3.1 Competition and predation	98	3.5 Inheritance	106
3.2 Adapting to change	100	3.6 Natural selection	108
3.3 Variations	102	3.7 Evolution	110
3.4 Continuous and discontinuous variation	104	3.8 B3 Chapter 3 Summary	112
Biology B3			
Biology B3 Unit Opener			114
Chapter 1: New technology			
1.1 Genetics	116	1.6 Biotechnology 1	126
1.2 Inherited disorders	118	1.7 Biotechnology 2	128
1.3 Selective breeding	120	1.8 Enzymes in industry	130
1.4 Genetic engineering	122	1.9 B3 Chapter 1 Summary	132
1.5 Cloning	124		
Chapter 2: Turning points in biology			
2.1 Vaccines 1	134	2.5 DNA	142
2.2 Vaccines 2	136	2.6 Charles Darwin	144
2.3 Antibiotics 1	138	2.7 Preventing extinction	146
2.4 Antibiotics 2	140	2.8 B3 Chapter 2 Summary	148
Chapter 3: Detection			
3.1 Microscopy	150	3.5 Time of death	158
3.2 Fingerprinting	152	3.6 Pathology	160
3.3 DNA fingerprinting	154	3.7 B3 Chapter 3 Summary	162
3.4 Blood typing	156		
Glossary			164
Index			171