

Syllabus matching grid – OxfordAQA International GCSE Biology Student Book

This syllabus matching grid identifies which section of the OxfordAQA International GCSE Biology syllabus each Unit in the Student Book maps to. It also identifies whether the Unit is relevant to the original “extended” syllabus (9201) or just the new “core” syllabus (9221). Note that study of the topics identified as Core is required for the Extended syllabus (9201) also.

Page	Unit title	Core or extended?	OxfordAQA Syllabus section	Notes
2	1.1 Animal and plant cells	Core and extended	3.1.1a-b	Extended: terms prokaryotes & ribosomes
4	1.2 Eukaryotes and prokaryotes	Extended	3.1.1c	
6	1.3 Specialised cells	Core	3.1.1d	
8	1.4 Tissues and organs	Core	3.1.2a-c, 3.1.3a-b, 3.1.4a-b	
10	1.5 Organ systems	Core	3.1.2d, 3.1.3c	
12	1.6 Diffusion	Core	3.1.5 a-c	
14	1.7 Osmosis	Core	3.1.5 d-e	Core required practical
16	1.8 Active transport	Extended	3.1.5 f-g	3.1.5 h-j covered in chapter 3
18	Chapter 1 summary and practice questions			
20	2.1 Cell division, growth and differentiation	Core and extended	3.5.2a-e, j-k	Also chapter 10.1
22	2.2 Cell division in sexual reproduction	Core	3.5.2f-i	
24	2.3 Stem cells	Extended	3.5.2k-m	
26	2.4 Cell growth and cancer	Extended	3.5.2n-o	
28	Chapter 2 summary and practice questions			
30	3.1 Exchanging materials	Core and extended	3.1.5h-j	Extended content also on 1.8
32	3.2 Breathing and gas exchange in the lungs	Core and extended	3.1.5j, 3.2.5a-c	
34	3.3 Artificial breathing aids	Extended	3.2.5d	

36	3.4 Aerobic respiration	Core and extended	3.2.6a-f	Extended: chemical equation
38	3.5 The effect of exercise on the body	Core	3.2.6g-h	Core required practical
40	3.7 Anaerobic respiration	Core and extended	3.2.6i-m	
42	Chapter 3 summary and practice questions			
44	4.1 The circulatory system and the heart	Core	3.2.3a-c, 3.2.3 h-i	
46	4.2 Helping the heart	Extended	3.2.3d,g	
48	4.3 Keeping the blood flowing	Core and Extended	3.2.3e-f,h, j-k,	
50	4.4 Transport in the blood	Core and extended	3.2.3l-q	
52	4.5 The immune system and blood groups	Core and extended	3.2.3r-t	
54	Chapter 4 summary and practice questions			
56	5.1 Carbohydrates, lipids and proteins	Core	3.2.4a	
58	5.2 Catalysts and enzymes	Core	3.2.4 b	
60	5.3 Factors affecting enzyme action	Core and extended	3.2.4b	
62	5.4 The digestive system	Core	3.2.4c	Extended only required practical
64	5.5 Making digestion efficient	Core and extended	3.2.4c	
66	5.6 Exchange in the gut	Core	3.2.4a, 3.1.3c, 3.1.5i-j	
68	5.7 Making use of enzymes	Extended	3.2.4c	
70	Chapter 5 summary and practice questions			
72	6.1 Responding to change	Core	3.4.1a-b,e, 3.4.2c-d	
74	6.2 Reflex actions	Core	3.4.1c-d	
76	6.3 Animal behaviour	Extended	3.4.6 a,c	
78	6.4 Animal communication	Extended	3.4.6e	
80	6.5 Reproductive behaviours	Extended	3.4.6a-b	
82	6.6 Human use of animal behaviours	Extended	3.4.6d	
84	Chapter 6 summary and practice questions			
86	7.1 Principles of homeostasis	Core	3.4.1b,d, 3.4.2a-b,e	Also see Chapter 6.1
88	7.2 Removing waste products	Core and Extended	3.4.3b-c	
90	7.3 The human kidney	Core and Extended	3.4.3a-b,d-g	
92	7.4 Controlling body temperature	Core	3.4.4a-d	
94	7.5 Controlling blood glucose	Core	3.4.5a-e	

96	7.6 Treating diabetes	Core	3.4.5d-e	
98	Chapter 7 summary and practice questions			
100	8.1 Pathogens and disease	Core	3.4.7a-b	
102	8.2 Defence mechanisms	Core	3.4.7c-d	
104	8.3 Immunity	Core	3.4.7d-e	
106	8.4 Using drugs to treat disease	Core	3.4.7 f-g	
108	8.5 Changing pathogens	Extended	3.4.7h-j	
110	8.6 Growing and investigating bacteria	Extended	3.4.7	Extended only required practical
112	Chapter 8 summary and practice questions			
114	9.1 Photosynthesis	Core and Extended	3.2.1a-b	Extended: chemical equation
116	9.2 Limiting factors	Core and Extended	3.2.1c	Core required practical
118	9.3 How plants use glucose	Extended	3.2.1d	
120	9.4 Exchange in plants	Core and Extended	3.2.2a-c,e	
122	9.5 Evaporation and transpiration	Core	3.2.2d	
124	9.6 Transport systems in plants	Extended	3.2.2f	
126	Chapter 9 summary and practice questions			
128	10.1 Inheritance	Core	3.5.2a-c,i 3.5.3a-c	
130	10.2 Types of reproduction	Core	3.5.1, 3.5.3a-b, 3.6.1a	
132	10.3 Causes of variation	Core	3.5.3a, 3.6.1a	
134	10.4 From Mendel to modern genetics	Core	3.5.3d	Includes principles used by Mendel and genetic diagrams
136	10.5 Inheritance in action	Core	3.5.3e-g	
138	10.6 DNA and family trees	Core and Extended	3.5.3g-k	Includes family trees
140	10.7 Inherited disorders in humans	Core	3.5.4a	
142	10.8 More inherited conditions in humans	Core	3.5.4a-b	
144	Chapter 10 summary and practice questions			
146	11.1 Cloning	Extended	3.5.5a	
148	11.2 Adult cell cloning	Extended	3.5.5a	
150	11.3 Genetic engineering	Core	3.5.5b-e	

152	11.4 Making choices about genetic technology	Core and Extended	3.5.5f	Informed judgements about both genetic engineering and cloning
154	Chapter 11 summary and practice questions			
156	12.1 Theories of evolution	Core	3.6.2a	
158	12.2 Natural selection	Core	3.6.2a-b	
160	12.3 Isolation and the evolution of new species	Extended	3.6.2c	
162	12.4 Adapt and survive	Core and Extended	3.3.2a-e	
164	12.5 Adaptations in animals	Core and Extended	3.3.2a,c-d,f	
166	12.6 Adaptations in plants	Core and Extended	3.3.2a-b,d,f	
168	12.7 Competition in animals	Core	3.3.2c-d	
170	12.8 Competition in plants	Core	3.3.2b,d	
172	12.9 Adaptations in parasites	Extended	3.3.2f	Required practical
174	Chapter 12 summary and practice questions			
176	13.1 Pyramids of biomass	Core and extended	3.3.1a-c	
178	13.2 Energy transfers	Core	3.3.1b	
180	13.3 Making food production efficient	Extended	3.3.1d	
182	13.4 Decay processes	Core	3.3.3a-c	
184	13.5 The carbon cycle	Core	3.3.3d-e	
186	Chapter 13 summary and practice questions			
188	14.1 The effects of the human population explosion	Core	3.3.4a-b	
190	14.2 Land and water pollution	Core and Extended	3.3.4b	
192	14.3 Air pollution	Core	3.3.4b	
194	14.4 Deforestation	Core	3.3.4c	
196	14.5 Global warming	Core	3.3.4d	
198	14.6 Analysing the evidence	Core	3.3.4a-d	
200	Chapter 14 summary and practice questions			