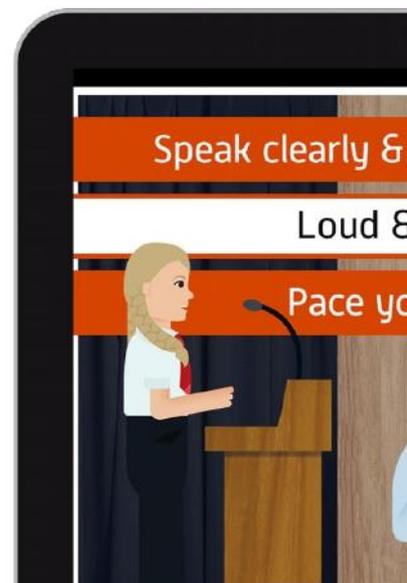
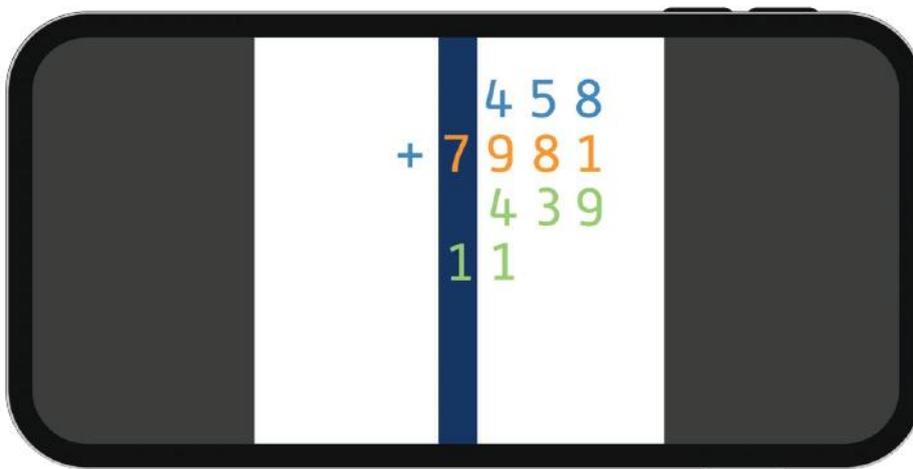
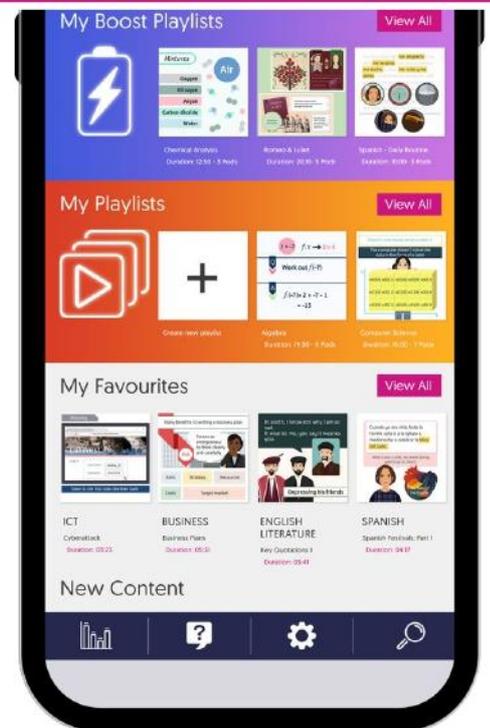


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# Biology

## AQA

### 4.1/Cell biology

#### 4.1.2/Cell division

Growth and Multicellular Organisms	BIOL-2194			
Stem Cell Technology	BIOL-2212			
Stem Cells (Part 2)	BIOL-2015			
The Cell Cycle	BIOL-2003			
Mitosis	BIOL-2004			
Stem Cells	BIOL-2014			

#### 4.1.1/Cell structure

Bacterial Growth	BIOL-2019			
Cell Differentiation	BIOL-2191			
Unspecialised Plant Cells	BIOL-2113			
Cell Structures and Microscopes	BIOL-2192			

#### 4.1.3/Transport in cells

Diffusion and Active Transport	BIOL-2105			
Gas Exchange in Humans	BIOL-2172			
Osmosis	BIOL-2092			
Surface-Area-To-Volume Ratio	BIOL-2109			

### Getting Ready for KS4 (GCSE)

#### Getting Ready for KS4 (GCSE) Biology

Getting Ready for KS4 (GCSE)	GRF-01-001			
Diffusion and Active Transport	BIOL-2105			
Gas Exchange in Humans	BIOL-2172			
Cell Differentiation	BIOL-2191			
Aerobic Respiration	BIOL-2167			
Anaerobic Respiration	BIOL-2168			
Using Energy from Respiration	BIOL-2170			

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Importance of Diet	BIOL-2001			
Cell Structures and Microscopes	BIOL-2192			
The Digestive System	BIOL-2188			
Speciation	BIOL-2229			
Photosynthesis	BIOL-2087			
Natural Selection	BIOL-2049			
Products of Photosynthesis	BIOL-2089			
Variation	BIOL-2050			
Competition	BIOL-2011			
Carbon Cycle	BIOL-2084			
Human reproduction	BIOL-2234			
History of DNA	BIOL-2026			
Fertilisation and germination	BIOL-2238			
Evidence for Human Evolution	BIOL-2021			
Menstruation	BIOL-2249			
Reproduction in plants	BIOL-2236			
Limiting Factors	BIOL-2090			
Investigate the Effect of a Factor on Human Reaction Time	BIOL-40-008			
Gas Exchange In Plants	BIOL-2110			
Investigating the Factors Affecting the Rate of Photosynthesis	BIOL-40-003			
Investigation into Variation in Organisms	BIOL-40-017			

## 4.2/Organisation

### 4.2.2/Animal tissues, organs and organ systems

Lock-and-Key Hypothesis	BIOL-2175			
Digestive Enzymes	BIOL-2176			
What is Blood?	BIOL-2180			
Enzymes	BIOL-2174			
The Circulatory System	BIOL-2184			
Pacemaker	BIOL-2186			
Heart Disease and Risk Factors	BIOL-2183			
Disease Transmission	BIOL-2044			

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Importance of Diet	BIOL-2001			
Smoking	BIOL-2063			
Alcohol Abuse	BIOL-2064			
Infection	BIOL-2073			
Cancer	BIOL-2217			
The Circulatory System (Part 2)	BIOL-2185			

### 4.2.3/Plant tissues, organs and systems

Plant Organs	BIOL-2106			
Transpiration	BIOL-2091			
Plant Structures	BIOL-2111			

## 4.3/Infection and response

### 4.3.1/Communicable diseases

Sexually transmitted infections	BIOL-2250			
Viruses	BIOL-2043			
Disease Prevention	BIOL-2045			
The Immune Response	BIOL-2069			
Body Defence	BIOL-2068			
Vaccines	BIOL-2072			
Immunisation	BIOL-2016			
Immunisation Programmes	BIOL-2017			
Resistance	BIOL-2071			
Antimicrobials and Antibiotics	BIOL-2070			
Developing New Drugs	BIOL-2066			
Drug Trials	BIOL-2038			

### 4.3.2/Monoclonal antibodies

Monoclonal Antibodies	BIOL-2018			
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### 4.3.3/Plant disease

Plant Defences and Communication	BIOL-2093			
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## 4.4/Bioenergetics

### 4.4.1/Photosynthesis

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Photosynthesis	BIOL-2087			
Products of Photosynthesis	BIOL-2089			
Plant growth	BIOL-2252			
Limiting Factors	BIOL-2090			
Gas Exchange In Plants	BIOL-2110			

#### **4.4.2/Respiration**

Respiration	BIOL-2166			
Aerobic Respiration	BIOL-2167			
Anaerobic Respiration	BIOL-2168			
Using Energy from Respiration	BIOL-2170			
Cell Metabolism	BIOL-2159			

### **4.5/Homeostasis and response**

#### **4.5.1/Homeostasis**

Homeostasis	BIOL-2006		
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#### **4.5.2/The human nervous system**

The Central Nervous System	BIOL-2148			
Synapses	BIOL-2151			
The Reflex Arc	BIOL-2149			
Reflexes	BIOL-2154			
Receptors and Effectors	BIOL-2157			
Mapping the Brain	BIOL-2152			
The Eye	BIOL-2153			
Thermoregulation	BIOL-2007			

#### **4.5.3/Hormonal coordination in humans**

Type 1 Diabetes	BIOL-2008			
Type 2 Diabetes	BIOL-2009			
Hormones	BIOL-2139			
Water Regulation	BIOL-2162			
Osmoregulation	BIOL-2165			
The Kidney	BIOL-2163			
The Nephron	BIOL-2161			

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The Urinary System	BIOL-2160			
Dialysis	BIOL-2164			
Female Hormones	BIOL-2140			
Menstruation	BIOL-2249			
Controlling Fertility	BIOL-2141			
Treating Infertility	BIOL-2145			
Human reproduction	BIOL-2234			

#### 4.5.4/Plant hormones

Tropisms	BIOL-2077		
Uses of Plant Hormones	BIOL-2078		

### 4.6/Inheritance, variation and evolution

#### 4.6.3/The development of understanding of genetics and evolution

Genetic Variation	BIOL-2035			
Darwin's Theory of Evolution (Part 2)	BIOL-2048			
Evidence for Human Evolution	BIOL-2021			
History of DNA	BIOL-2026			
The Fossil Record	BIOL-2051			
Bacteria	BIOL-2041			
Extinction	BIOL-2012			
Darwin's Theory of Evolution	BIOL-2047			
Natural Selection	BIOL-2049			

#### 4.6.1/Reproduction

Genes	BIOL-2052			
Protein Synthesis	BIOL-2173			
Fetal Screening	BIOL-2147			
Sperm and egg	BIOL-2235			
Reproduction in plants	BIOL-2236			
Meiosis	BIOL-2005			
DNA (Part 1)	BIOL-2024			
Pollination	BIOL-2237			

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DNA (Part 2)	BIOL-2025			
Alleles	BIOL-2053			
Sex Inheritance	BIOL-2055			
Genetic Disorders	BIOL-2031			
Genetic Testing	BIOL-2036			
Monohybrid Inheritance	BIOL-2057			
Fertilisation and germination	BIOL-2238			

#### 4.6.2/Variation and evolution

Genetic Engineering	BIOL-2027			
Selective breeding	BIOL-2242			
Arguments For and Against GM	BIOL-2028			
Cloning (Animals)	BIOL-2030			
Speciation	BIOL-2229			
Variation	BIOL-2050			

#### 4.6.4/Classification of living organisms

The Five Kingdoms	BIOL-2135			
Why do we Classify? And what is a Species?	BIOL-2137			

### 4.7/Ecology

#### 4.7.1/Adaptations, interdependence and competition

Maintaining Ecosystems and Preventing Ecosystem Loss	BIOL-2115			
Adaptations	BIOL-2046			
Extreme Conditions	BIOL-2103			
Competition	BIOL-2011			

#### 4.7.3/Biodiversity and the effect of human interaction on ecosystems

Global Population Change	BIOL-2013			
What Is Biodiversity?	BIOL-2075			
Waste from Human Activities	BIOL-2118			
Global Pollution	BIOL-2123			
Deforestation & Peat Removal	BIOL-2119			
The greenhouse effect	BIOL-2243			

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### 4.7.5/Food production

Using Resources	BIOL-2121			
Fish farming	BIOL-2240			
Conservation	BIOL-2124			
Genetic Modification	BIOL-2032			
Sustainable Food	BIOL-2120			
Genetically Modifying Bacteria	BIOL-2033			
Towards a Sustainable Use of Resources	BIOL-2122			
Sustainability	BIOL-2125			
Microorganisms for Food	BIOL-2098			

### 4.7.2/Organisation of an ecosystem

Carbon Cycle	BIOL-2084			
Decay Processes	BIOL-2104			
Food chains and webs	BIOL-2251			
The water cycle	BIOL-2233			
Decay	BIOL-2127			
Human Systems	BIOL-2117			
How to do Fieldwork	BIOL-2107			

### 4.7.4/Trophic levels in an ecosystem

Energy from Biomass	BIOL-2131			
Modern Farming	BIOL-2129			
Organic Farming	BIOL-2130			
Energy Transfer	BIOL-2079			
Eutrophication	BIOL-2081			

## Biology Practicals

### Biology Practicals

Using a Light Microscope to Observe, Draw and Label	BIOL-40-001			
Rates of Enzyme-Controlled Reactions	BIOL-40-002			
Investigate the Relationship Between Organisms and Their Environment using Field-Work Techniques	BIOL-40-004			
Using Qualitative Reagents to Test for a Range of Carbohydrates, Lipids and Proteins	BIOL-40-005			

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Investigate the Effect of Antiseptics or Antibiotics on Bacterial Growth Using Agar Plates	BIOL-40-006			
Investigate the Effect of a Range of Concentrations of Salt or Sugar Solutions on the Mass of Plant Tissue	BIOL-40-007			
Investigate the Effect of Light or Gravity on the Growth of Newly Germinated Seedlings	BIOL-40-011			
Investigation into Factors Affecting Decomposition	BIOL-40-013			
Investigating the Factors Affecting the Rate of Photosynthesis (Higher)	BIOL-40-019			
Investigate the Effect of a Factor on Human Reaction Time	BIOL-40-008			
Investigating the Factors Affecting the Rate of Photosynthesis	BIOL-40-003			

## Revision Skills and Tips - Biology

### Revision and Study Skills

Introduction	REV-001-004-001		
Planning for Revision	REV-001-004-002		
Developing Independent Study Skills for Success	REV-001-004-003		
Managing Exam Stress	REV-001-004-004		
Keeping Your Brain Active During Revision	REV-001-004-005		
Summary	REV-001-004-006		
Web Links	REV-001-004-007		

### Revision and Exam Tips

Introduction	REV-001-008-001		
Knowing What You Face	REV-001-008-002		
Creating a Revision Programme	REV-001-008-003		
What Techniques Should You Use to Revise Biology?	REV-001-008-004		
Exam Tips	REV-001-008-005		
Summary	REV-001-008-006		
Web Links	REV-001-008-007		

### GCSEPod's Top Revision Tips

GCSEPod's Top Revision Tips	REV-011-001		
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## Getting Ready for KS5 (A Level)

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Transpiration	BIOL-2091			
Condensation polymerisation	CHEM-2149			
Diffusion and Active Transport	BIOL-2105			
Enzymes	BIOL-2174			
DNA (Part 1)	BIOL-2024			
DNA (Part 2)	BIOL-2025			
Alleles	BIOL-2053			
Cell Structures and Microscopes	BIOL-2192			
Darwin's Theory of Evolution	BIOL-2047			
Speciation	BIOL-2229			
Darwin's Theory of Evolution (Part 2)	BIOL-2048			
Variation	BIOL-2050			
Natural Selection	BIOL-2049			
Monohybrid Inheritance	BIOL-2057			
The Cell Cycle	BIOL-2003			
Mitosis	BIOL-2004			
Meiosis	BIOL-2005			
Stem Cells	BIOL-2014			
Osmosis	BIOL-2092			
Surface-Area-To-Volume Ratio	BIOL-2109			
Aerobic Respiration	BIOL-2167			
Anaerobic Respiration	BIOL-2168			
Using Energy from Respiration	BIOL-2170			
Photosynthesis	BIOL-2087			
Products of Photosynthesis	BIOL-2089			
Limiting Factors	BIOL-2090			
The Circulatory System	BIOL-2184			
The Circulatory System (Part 2)	BIOL-2185			
The Digestive System	BIOL-2188			

### Symbol Keys



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Gas Exchange In Plants

BIOL-2110   

Importance of Diet

BIOL-2001   

Antimicrobials and Antibiotics

BIOL-2070   

Monoclonal Antibodies

BIOL-2018   

Immunisation

BIOL-2016   

Vaccines

BIOL-2072   

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Additional Resources



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