

Year 12 Long Term Scheme of Learning 2025-26

Subject: Biology

HELSBY

High School



Date (w/b)	Exams	AST (4)	RPA (5)
01/09/2025		3.2.1 Cells - Structure of Eukaryotic cells - Microscopes Practical - Prokaryotic cells and viruses - Light and Electron microscopes - Measuring cell length practical - Cell Fractionation - Cells test	3.1.2/3 Biological molecules - Monomers and Polymers - Mono and disaccharides - Serial dilution and Benedicts - Reducing/Non reducing sugar test - Carbohydrate structure - Lipid structure - Testing for lipids - Carbohydrates and Lipids test
08/09/2025			
15/09/2025			
22/09/2025			
29/09/2025			
06/10/2025			
13/10/2025		3.2.2 Cells - Mitosis - Mitosis required practical	3.1.4 Protein - Amino acid and Protein structure - Chromatography of amino acids
20/10/2025			
03/11/2025		3.2.3 Transport - Cell Membranes - Membrane permeability required practical - Transport self-study - Co-Transport and cell adaptations - Osmosis required practical - Transport test	3.1.5 DNA - Enzymes action theory - Factors affecting enzymes - Trypsin Required Practical - Enzymes test
10/11/2025			
17/11/2025			
24/11/2025			
01/12/2025			
08/12/2025			
15/12/2025			3.2.4 Immunity - Antigens and Phagocytosis - T Cells - Antibodies and B Cells - Immunity and vaccines - Antigenic variability - Monoclonal antibodies - Immunity test - Review - Test
05/01/2026		3.4.1/2/3 DNA and protein synthesis - Nucleic acids - Transcription - Translation - Mutations - Meiosis and variation - Protein synthesis test, Selection	3.3.1/2 Gas Exchange - Surface area: Volume ratio - Xerophyte adaptations
12/01/2026			
19/01/2026			
26/01/2026			
02/02/2026			
09/02/2026			
23/02/2026			3.3.3 Digestion - Digestive system and Absorption - Bile
02/03/2026		3.4.5/6/7 Diversity - Growing bacteria Required practical - Species - Classification - Biodiversity Investigating variation (Statistics) - Diversity test	3.3.4.1 Mass transport in animals - Digestive system test - Human circulatory system - Heart dissection – Required practical - Cardiac cycle - Blood vessels - Tissue fluid
09/03/2026			
16/03/2026			
23/03/2026			
30/03/2026			
20/04/2026			
27/04/2026		3.3.4.1 Mass transport in plants - Xylem and Transpiration - Phloem - Mass transport in plants - Revision	- Cardio vascular disease Revision - Oxygen dissociation curve - Exercise and pulse rate - Mass transport in animals test
04/05/2026			
11/05/2026			
18/05/2026			
01/06/2026			
08/06/2026		3.7.2.4 Populations - Anglesey Prep - Revision - Test - Anglesey write up	- Cardio vascular disease Revision - Oxygen dissociation curve - Exercise and pulse rate - Mass transport in animals test - Revisio
15/06/2026			
22/06/2026			
29/06/2026			

Year 12 Long Term Scheme of Learning 2025-26

Subject: Biology

HELSBY

High School



Achieving Success
Valuing Others

06/07/2026			<u>3.7.2.4 Populations</u> • Anglesey Prep • Revision • Test • Anglesey write up
13/07/2026			
01/09/2025			