

Subject: Biology

Date (w/b)	Exams	AST (4)	RPA (5)
02/09/2024		3.2.1 Cells <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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
09/09/2024			
16/09/2024			
23/09/2024			
30/09/2024			
07/10/2024			
14/10/2024		3.2.2 Cells <ul style="list-style-type: none"> Mitosis Mitosis required practical 	3.1.4 Protein <ul style="list-style-type: none"> Amino acid and Protein structure Chromatography of amino acids 3.1.5 DNA <ul style="list-style-type: none"> Enzymes action theory Factors affecting enzymes Trypsin Required Practical Enzymes test
21/10/2024			
04/11/2024		3.2.3 Transport <ul style="list-style-type: none"> Cell Membranes Membrane permeability required practical Transport self-study Co-Transport and cell adaptations Osmosis required practical Transport test 	<ul style="list-style-type: none"> DNA/RNA/Water self-study review DNA replication DNA test Essay introduction 3.2.4 Immunity <ul style="list-style-type: none"> Antigens and Phagocytosis T Cells Antibodies and B Cells Immunity and vaccines Antigenic variability Monoclonal antibodies Immunity test Review Test 3.3.1/2 Gas Exchange <ul style="list-style-type: none"> Surface area: Volume ratio Xerophyte adaptations
11/11/2024			
18/11/2024			
25/11/2024			
02/12/2024			
09/12/2024			
16/12/2024		3.4.1/2/3 DNA and protein synthesis <ul style="list-style-type: none"> Nucleic acids Transcription Translation Mutations Meiosis and variation Protein synthesis test, Selection 	3.3.3 Digestion <ul style="list-style-type: none"> Digestive system and Absorption Bile
06/01/2025			
13/01/2025			
20/01/2025			
27/01/2025			
03/02/2025			
10/02/2025			
06/01/2025			
24/02/2025		3.4.5/6/7 Diversity <ul style="list-style-type: none"> Growing bacteria Required practical Species Classification Biodiversity Investigating variation (Statistics) Diversity test 	<ul style="list-style-type: none"> Digestive system test 3.3.4.1 Mass transport in animals <ul style="list-style-type: none"> Human circulatory system Heart dissection – Required practical Cardiac cycle Blood vessels Tissue fluid
03/03/2025			
10/03/2025			
17/03/2025			
24/03/2025			
31/03/2025			
21/04/2025		3.3.4.1 Mass transport in plants <ul style="list-style-type: none"> Xylem and Transpiration Phloem Mass transport in plants Revision 	<ul style="list-style-type: none"> Cardio vascular disease Revision Oxygen dissociation curve Exercise and pulse rate Mass transport in animals test
28/04/2025			
05/05/2025			
12/05/2025			
19/05/2025			
02/06/2025		3.7.2.4 Populations <ul style="list-style-type: none"> Anglesey Prep Revision Test 	<ul style="list-style-type: none"> Cardio vascular disease Revision Oxygen dissociation curve Exercise and pulse rate Mass transport in animals test
09/06/2025			
16/06/2025			

Year 12 Long Term Scheme of Learning 2024-25

HELBY

High School



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23/06/2025		Anglesey write up	<ul style="list-style-type: none">• Revisio• <u>3.7.2.4 Populations</u>• Anglesey Prep• Revision• Test• Anglesey write up
30/06/2025			
07/07/2025			
14/07/2025			