

Biology

Date (w/b)	Exams	Unit(s)	
4/9/23		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
11/9/23			
18/9/23			
25/9/23			
2/10/23			
9/10/23			
16/10/23		3.2.2 Cells <ul style="list-style-type: none"> Mitosis Mitosis required practical 3.2.3 Transport <ul style="list-style-type: none"> Cell Membranes Membrane permeability required practical 	3.1.4 Protein <ul style="list-style-type: none"> Amino acid and Protein structure Chromatography of amino acids
30/10/23		<ul style="list-style-type: none"> Transport self-study Co-Transport and cell adaptations Osmosis required practical Transport test 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 	3.1.5 DNA <ul style="list-style-type: none"> Enzymes action theory Factors affecting enzymes Trypsin Required Practical Enzymes test DNA/RNA/Water self-study review DNA replication DNA test Essay introduction 3.3.1/2 Gas Exchange <ul style="list-style-type: none"> Surface area: Volume ratio Xerophyte adaptations
6/11/23			
13/11/23			
20/11/23			
27/11/23			
4/12/23			
11/12/23		<ul style="list-style-type: none"> Review Test 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 	<ul style="list-style-type: none"> Insect respiratory systems Fish respiratory system Gill dissection – Required practical Human Gas exchange Lung disease Gas exchange test 3.3.3 Digestion <ul style="list-style-type: none"> Digestive system and Absorption Bile
1/1/24		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
8/1/24			
15/1/24			
22/1/24			
29/1/24			
5/2/24			
12/2/24		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
26/2/24			
4/3/24			
11/3/24			
18/3/24			
25/3/24			
15/4/24		3.7.2.4 Populations <ul style="list-style-type: none"> Anglesey Prep Revision Test Anglesey write up 	<ul style="list-style-type: none"> Cardio vascular disease Revision Oxygen dissociation curve Exercise and pulse rate Mass transport in animals test Revisio 3.7.2.4 Populations <ul style="list-style-type: none"> Anglesey Prep Revision Test Anglesey write up
22/4/24			
29/4/24			
6/5/24			
13/5/24			
20/5/24			
3/6/24		3.7.2.4 Populations <ul style="list-style-type: none"> Anglesey Prep Revision Test Anglesey write up 	<ul style="list-style-type: none"> Cardio vascular disease Revision Oxygen dissociation curve Exercise and pulse rate Mass transport in animals test Revisio 3.7.2.4 Populations <ul style="list-style-type: none"> Anglesey Prep Revision Test Anglesey write up
10/6/24			
17/6/24			
24/6/24			
1/7/24			
8/7/24			
15/7/24			

Year 12 Long Term Scheme of Learning 2023-24

Biology

HELSEBY

High School



Achieving Success
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