		Lessons		
Week beginning	Week	BB	SMG	MET
22-Feb	B			
01-Mar	A			
08-Mar	B			
15-Mar	A	HIV	Selection pressures	Dissociation curves
22-Mar	B	Investigating diversity	Protein synthesis	Enzymes and biomolecules
29-Mar	Aassument Paper 1- Wednesday P4 and 5	Meiosis	Mitosis	Water
EASTER				
19--Apr	B	Photosynthesis	Respiration	Nervous system and synapses
26-Apr	A	Inheritance	Assessment	Assessment
03-May	B	Hardy Weinberg	Energy and Ecosystems	Muscle contraction and essay 1
10-May	A	essay 2	Assessment	Assessment
17-May	B			Thermoregulation
24-May	A	Any further opportunities for assessment		Assessment

Taught in lockdown
*Taught in lockdown BUT needed for progression
Not taught at all
**Not taught at all BUT needed for progression

	Topic 1
	Biological molecules
1	Carbohydrates
2	Lipids
3	Proteins
4	Enzymes
5	Water and ions
6	Starch, glycogen and cellulose
7	RNA and DNA structure
8	DNA replication
9	Energy and ATP

	Topic 2
	Cells
1	Microscopy
2	Eukaryotic cell structure
3	Cell specialisation and prokaryotic cell structure
4	Mitosis
5	Cell surface membrane and diffusion
6	Osmosis
7	Active transport
8	Co transport and glucose uptake
9	Defence mechanisms
10	Phagocytosis
11	T Lymphocytes
11	B Lymphocytes
11	Monoclonal antibodies and vaccination
11	HIV

	Topic 3
	Organisms and exchange
1	SA/VR and features of specialised exchange surfaces
2	Single celled organisms and insects
3	Fish GE
4	Lung structure and function
5	Breathing and GE in lungs
6	Circulatory system and heart structure
7	Cardiac cycle
8	Blood vessels
9	Tissue fluid
10	Haemoglobin and disassociation curves
11	Xylem
12	Phloem
13	GE in leaf and adaptation
14	Digestion and absorption

	Topic 4
	Genetic information
1	DNA and chromosomes
2	Genes and triplet code
3	RNA
4	Transcription
5	Translation
6	Mutations
7	Meiosis
8	Diversity and adaptation
9	Selection pressures
10	Taxonomy
11	Index of diversity and human activities
12	Investigation diversity and quantitative measurements

	Topic 5
	Energy transfers
1	Photosynthesis- light dependent
2	Light independent
3	Respiration- glycolysis, link and Krebs
3	Oxidative phosphorylation
4	Anaerobic respiration
5	Food chains and energy transfer
6	Productivity
7	Nitrogen cycle and phosphorus cycle
8	Fertilisers and environmental issues

	Topic 6
	Organisms and response
1	Taxes, kinesis and tropisms
2	Reflex arc and receptors
3	Control of heart rate
4	Neurones structure and function
5	Action potential
6	Speed of a nervous impulse
7	Synapses
8	*Muscle structure and function
9	*Muscle contraction
10	*Neuro muscular junction
11	**Feedback mechanisms and thermoregulation
12	Kidneys structure and function
13	Osmoregulation
14	Blood glucose control and diabetes

	Topic 7
	Genetics and populations
1	Monohybrid and dihybrid crosses
2	Co dominance and sex linkage
3	Autosomal linkage and epistasis
4	Chi square and Hardy Weinburg
5	Variation and natural selection
6	Selection pressures
7	Isolation and speciation
8	Ecosystems and factors affecting populations
9	Competition and predation
10	Sampling populations
11	Succession
12	Conservation

	Topic 8
	Gene expression
1	Mutations
2	Stem cells and totipotency
3	Regulating transcription and translation
4	Epigenetics
5	Cancer and the genome project
6	DNA technology- producing DNA fragments
7	In- vivo gene cloning
8	In- vitro gene cloning
9	Genetic screening
10	Genetic fingerprinting

Paper 1

Q1. Enzymes- **MET**

Q2. Cells structure/mass transport- **evaluate question**

Q3. Investieatine diversity - **BB**

Q4. Selection pressures/protein synthesis/stats - **SMG**

Q5. HIV/Immune resoonse - **BB**

Q6. mitosis/DNA replication/Biza tests -**BB**

Q7. mitosis/meiosois - **SMG**

~~Q8. gas exchange in plants/ xerophytic plants~~

Q9. Dissociation curves- **MET**

Q10. properties of water/Biochemical tests/biomolecules- **MET**

Paper 2

photosynthesis - BB

Inheritance- BB

Synapses/Action potential- MET

Inheritance/Hardy Weinberg - BB

cell division/enzymes

~~Taxes/Kinesis- Tropisms~~

photosynthesis - BB