Year 11 Triple Biology 2020-21

Time	Content	Homework
HT1	**PLANT DISEASE (4.3.3, 4.3.3.1, 4.3.3.2)** • Symptoms of plant disease • Methods of identification • RECAP TMV and black spot • Ion deficiency • Physical defence responses • Chemical defence responses	**Literacy:** *Plant disease comparison* **Exam practice:** *Plant diseases*
HT2	**PLANT HORMONES (4.5.4.1, 4.5.4.2)** • Phototropism • Geotropism • Gibberellins & ethene • Uses of plant hormones • **RP8**	**Application:** *Practical write up and questions from CPG workbook on RP8*
HT3	**CULTURING MICROORGANISMS (4.1.1.6)** • Bacterial growth (binary fission) • Preparing plates - Aseptic technique • Calculating bacterial populations • **RP2** **MONOCLONAL ANTIBODIES (4.3.2 , 4.3.2.1,4.3.2.2)** • Production of monoclonal antibodies • Uses of monoclonal antibodies	**Application:** *Practical write up and questions from CPG workbook on RP2*
HT4	**DECOMPOSITION (4.7.2.3 , 4.7.2.4)** • Effect of water, temp and oxygen availability • Impact of environmental change • Optimum conditions • Rate calculations • Biogas generators • **RP10**	**Application:** *Practical write up and questions from CPG workbook on RP10*
HT5	**HOMEOSTASIS (4.5.2.4) & (4.5.3.3) RECAP** • *Thermoregulatory center of the brain* • *Vasodilation* • *Vasoconstriction* • *Sweating* • *Water loss* • *Kidney, transplants and dialysis* • *ADH* **DNA STRUCTURE (4.6.1.5) RECAP** • Nucleotide polymer • ACGT Bases • Sequences - 3 bases for one amino acid • Protein Synthesis • Genes and phenotype • Importance of structure in proteins • Mutations	**100 word paragraph: (Lit)** *How does your body control your internal temperature?* **Exam Questions:** *Homeostasis*

	• Non-functional enzymes • Non-coding DNA **FOOD PRODUCTION RECAP** • **GM crops** • **GM insulin production**	
HT6	**Active learning revision lessons**	