Week number	Lesson content
1	Topic 1: Biological Molecules • Carbohydrates and lipids • Inorganic ions and water • Proteins • DNA and protein synthesis • Enzymes To include a WCF and MMA
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8	Topic 2: Cells, Viruses and Reproduction of Living Things • Eukaryotic and prokaryotic cell structure and function • Microscopy • Viruses • Eukaryotic cell cycle and division • Sexual reproduction in mammals To include a WCF and MMA
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16	Topic 4: Exchange and Transport • Cell transport mechanisms • Surface area to volume ratios • Gas exchange • Circulation • Transport of gases in the blood • Transfer of materials between the circulatory system and cells • Transport in plants To include a WCF and MMA
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25	Topic 3: Classification and Biodiversity • Classification • Natural selection • Biodiversity To include a WCF and MMA
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29	Topic 5: Energy for Biological Processes • Aerobic respiration, glycolysis, link reaction and the Krebs cycle • Oxidative phosphorylation • Anaerobic respiration • Photosynthetic pigments
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35	To include a WCF and MMA **AS MOCK EXAMS TO INCLUDE ALL OF THE ABOVE**
36	Topic 9: Control Systems • Homeostasis and chemical control in mammals • Chemical control in plants • Osmoregulation and thermoregulation • Structure and function of the mammalian nervous system • Nervous transmission • Detection of light by mammals • Effect of drugs on the nervous system • Control of heart rate in mammals To include a WCF and MMA
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44	Topic 6: Microbiology and Pathogens • Microbial techniques • Bacteria as pathogens • Action of antibiotics and antibiotic resistance • Response to infection To include a WCF and MMA
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52	Topic 7: Modern Genetics • Gene sequencing, stem cells and gene technology To include a WCF and MMA
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54	Topic 8: Origins of Genetic Variation • Origins of genetic variation, transfer of genetic information and gene pools To include a WCF and MMA
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57	Topic 10: Ecosystems • Energy transfer through ecosystems • Changes in ecosystems • Human effects of ecosystems To include a WCF and MMA
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