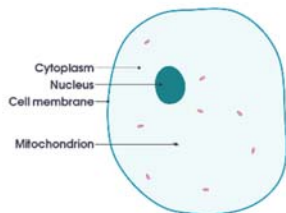
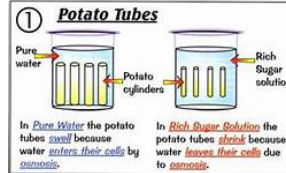
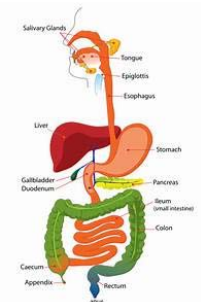
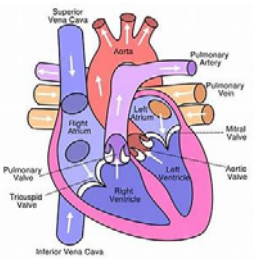

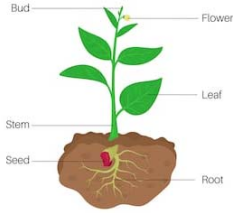
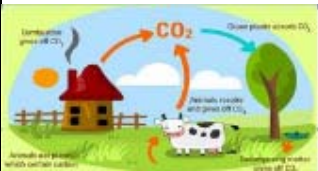


# Upton Hall FCJ Curriculum Map 2020-2021 GCSE BIOLOGY/TRIOLOGY to reflect changes due to Covid 19

	Autumn term 1	Autumn term 2	Spring term 1	Spring term 2	Summer term 1	Summer term 2
<b>Year 9</b>	 <p><b>Cell Biology</b></p> <p>Eukaryote and prokaryote structure</p> <p>Organisation</p> <p>Cell specialisation and differentiation</p> <p>Microscopy including IMO calculation</p> <p>RP1 - use of light microscopes</p>	 <p><b>Transport in cells</b></p> <p>Diffusion</p> <p>Osmosis</p> <p>Active transport</p> <p>RP3 – osmosis experiment</p>	 <p><b>Digestion and Enzymes</b></p> <p>Structure of the human digestive system</p> <p>Enzymes and enzyme reactions</p> <p>RP4 – Food tests</p> <p>RP5 – Effect of pH on enzyme reactions</p>	 <p><b>Circulatory System</b></p> <p>Circulatory system</p> <p>Heart, blood and blood vessels</p> <p>Coronary heart disease</p>	 <p><b>Non-communicable Diseases</b></p> <p>Non-communicable diseases</p> <p>Lifestyle and its effect on non-communicable diseases</p> <p>Cancer</p>	 <p><b>Plants</b></p> <p>Plant structure and function</p> <p>Plant tissues and organs</p> <p>Transpiration</p>





*Lock down topics covered in Y10 included (these topics were reviewed when Y10 students attended school in July 2020):*

*Biodiversity and food production  
Variation, Evolution and Classification  
Ecology intro*

*The Cell Division and Reproduction topic in Y10 was not completed – this will be covered in Y11.*

**Trophic levels in an ecosystem**

How materials are recycled

*Trophic levels*

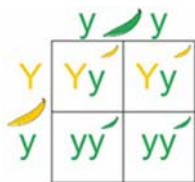
*Pyramids of biomass*

*Transfer of biomass*

*Decomposition*

*RP10 – investigating the effect of temperature on decay*

**Mock examinations**



**Reproduction**

Meiosis

Sexual and asexual reproduction

DNA and the genome

Genetic inheritance

Inherited disorders and sex determination

*Advantages of sexual and asexual reproduction*

*DNA structure*

*The understanding of genetics*



**Human nervous system**

Structure and function of the nervous system

*Brain and the eye*

RP7 – investigation into human reaction times



**Homeostasis & response**

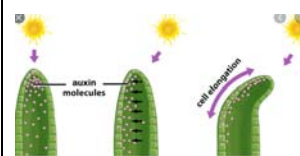
*Control of body temperature and negative feedback*

Human endocrine system

Control of blood glucose concentration

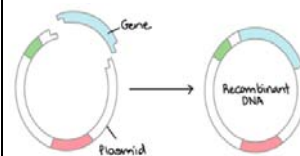
Hormones and human reproduction

*Water and nitrogen balance*



**Plant hormones**

*Control and coordination  
RP8 – investigating the effect of light/gravity of germinating seedlings  
Use of plant hormones*



Genetic engineering

*Role of biotechnology  
Cloning*



Retrieval practice and examination preparation



GCSE Examinations