

## Combined Science: Higher Revision list

### Biology Paper 1

Topic	Tick
<b>Chapter 1:</b>	
State where chromosomes are found in the cell <a href="https://www.youtube.com/watch?v=QCCp-Y_-7J0">https://www.youtube.com/watch?v=QCCp-Y_-7J0</a>	
Describe the process of mitosis <a href="https://www.youtube.com/watch?v=RHyZVmbiA78">https://www.youtube.com/watch?v=RHyZVmbiA78</a>	
Describe what a stem cell is and how it can be used <a href="https://www.youtube.com/watch?v=Kh27eyjxvYM">https://www.youtube.com/watch?v=Kh27eyjxvYM</a>	
RPA Light microscope <a href="https://www.youtube.com/watch?v=jBVxo5T-ZQM">https://www.youtube.com/watch?v=jBVxo5T-ZQM</a>	
<b>Chapter 2:</b>	
Describe the role of all the digestive organs in the digestive system <a href="https://www.youtube.com/watch?v=4ui4oSHHnzA">https://www.youtube.com/watch?v=4ui4oSHHnzA</a>	
Describe how enzymes work <a href="https://www.youtube.com/watch?v=VNX9UQ08fZ4">https://www.youtube.com/watch?v=VNX9UQ08fZ4</a>	
State the specific enzymes in the digestive system and how they work <a href="https://www.youtube.com/watch?v=VLK2wANjQm0">https://www.youtube.com/watch?v=VLK2wANjQm0</a>	
Describe the role of bile in the digestive system <a href="https://www.youtube.com/watch?v=TNG-RRzwBVU">https://www.youtube.com/watch?v=TNG-RRzwBVU</a>	
RPA Food test <a href="https://www.youtube.com/watch?v=akMLGbnA0gE">https://www.youtube.com/watch?v=akMLGbnA0gE</a>	
RPA Enzymes and pH <a href="https://www.youtube.com/watch?v=8Yqbu56ImXk">https://www.youtube.com/watch?v=8Yqbu56ImXk</a>	
Describe the structure and function of the heart <a href="https://www.youtube.com/watch?v=y1DsaAZyamQ">https://www.youtube.com/watch?v=y1DsaAZyamQ</a>	
Describe the structure and function of the respiratory system <a href="https://www.youtube.com/watch?v=C4zaV5r6-KI">https://www.youtube.com/watch?v=C4zaV5r6-KI</a>	
Describe the structure and function of blood vessels <a href="https://www.youtube.com/watch?v=ALSQEs694qY">https://www.youtube.com/watch?v=ALSQEs694qY</a>	
State the role of a pacemaker (natural and artificial) <a href="https://www.youtube.com/watch?v=ALSQEs694qY">https://www.youtube.com/watch?v=ALSQEs694qY</a>	
Identify different blood components from diagrams and photographs <a href="https://www.youtube.com/watch?v=81w0BXg7QJA">https://www.youtube.com/watch?v=81w0BXg7QJA</a>	
Describe the function of the different components of blood	
Describe what CHD is <a href="https://www.youtube.com/watch?v=UN5BIPfMUkg">https://www.youtube.com/watch?v=UN5BIPfMUkg</a>	

Describe the various treatments of CHD <a href="https://www.youtube.com/watch?v=Z70tdbDin4E">https://www.youtube.com/watch?v=Z70tdbDin4E</a>	
Define the term health <a href="https://www.youtube.com/watch?v=thAyrNpD77A">https://www.youtube.com/watch?v=thAyrNpD77A</a>	
Describe examples of risk factors for non-communicable diseases <a href="https://www.youtube.com/watch?v=H6DrSG_KQjo">https://www.youtube.com/watch?v=H6DrSG_KQjo</a>	
Describe the effect of lifestyle of non-communicable diseases	
Define the terms cancer, benign and malignant tumours <a href="https://www.youtube.com/watch?v=B5VHRKBI4PY">https://www.youtube.com/watch?v=B5VHRKBI4PY</a>	
<b>Chapter 4:</b>	
Know the word and symbol equation for photosynthesis <a href="https://www.youtube.com/watch?v=X81OIkeuHJw">https://www.youtube.com/watch?v=X81OIkeuHJw</a>	
Describe photosynthesis	
Explain the effects of temperature, light, carbon dioxide and chlorophyll on the rate of photosynthesis <a href="https://www.youtube.com/watch?v=kx7AeCx_6xQ">https://www.youtube.com/watch?v=kx7AeCx_6xQ</a>	
Explain limiting factors of photosynthesis including using graphs	
Use the inverse square law in terms of photosynthesis <a href="https://www.youtube.com/watch?v=Odv64i1ntV4">https://www.youtube.com/watch?v=Odv64i1ntV4</a>	
Explain the importance of limiting factors and economics in greenhouses to gain maximum profit	
RPA photosynthesis <a href="https://www.youtube.com/watch?v=id0aO_OdFwA">https://www.youtube.com/watch?v=id0aO_OdFwA</a>	
Describe the uses of glucose in plants <a href="https://www.youtube.com/watch?v=e_V7h37vI3Q">https://www.youtube.com/watch?v=e_V7h37vI3Q</a>	

## **Biology Paper 2**

Topic	Tick
<b>Chapter 5</b>	
Describe the role of the endocrine system (hormonal) <a href="https://www.youtube.com/watch?v=c6olhi88KZs">https://www.youtube.com/watch?v=c6olhi88KZs</a>	
Label the following glands - pituitary gland; pancreas; thyroid; adrenal gland; ovary and testes	
Describe how blood glucose levels are monitored and controlled <a href="https://www.youtube.com/watch?v=OhrX3X3LGzI">https://www.youtube.com/watch?v=OhrX3X3LGzI</a>	
Explain the negative feedback cycle in terms of blood glucose	
Describe Type 1 and Type 2 diabetes - causes and treatments <a href="https://www.youtube.com/watch?v=bFnO8Uc9gjq">https://www.youtube.com/watch?v=bFnO8Uc9gjq</a>	
Describe the role of hormones in the menstrual cycle <a href="https://www.youtube.com/watch?v=iXswGsfeHJg">https://www.youtube.com/watch?v=iXswGsfeHJg</a>	
Describe how the hormones interact with one another in the menstrual cycle	

Describe and compare the different methods of contraception <a href="https://www.youtube.com/watch?v=5rsdXadNj-E">https://www.youtube.com/watch?v=5rsdXadNj-E</a>	
Describe the process of IVF <a href="https://www.youtube.com/watch?v=fOfFr9Q0WWA">https://www.youtube.com/watch?v=fOfFr9Q0WWA</a>	
Evaluate the benefits and drawbacks of IVF	
<b>Chapter 7</b>	
RPA Quadrats and transects <a href="https://www.youtube.com/watch?v=RhMOCxXcDrQ">https://www.youtube.com/watch?v=RhMOCxXcDrQ</a>	
Describe food chains and webs <a href="https://www.youtube.com/watch?v=2lqhJNgn_Wg">https://www.youtube.com/watch?v=2lqhJNgn_Wg</a>	
Describe the carbon cycle <a href="https://www.youtube.com/watch?v=cWj3u8voDSq">https://www.youtube.com/watch?v=cWj3u8voDSq</a>	
Describe the water cycle <a href="https://www.youtube.com/watch?v=MfCLqCGqe6E">https://www.youtube.com/watch?v=MfCLqCGqe6E</a>	
Define the term biodiversity <a href="https://www.youtube.com/watch?v=I5UR9uMeWuQ">https://www.youtube.com/watch?v=I5UR9uMeWuQ</a>	
Describe the effects of the human population increasing on waste management and land use <a href="https://www.youtube.com/watch?v=0IUHnS-8kR4">https://www.youtube.com/watch?v=0IUHnS-8kR4</a>	
Describe the effects of deforestation <a href="https://www.youtube.com/watch?v=SROoINlp4VY">https://www.youtube.com/watch?v=SROoINlp4VY</a>	
Describe the causes and effects of global warming <a href="https://www.youtube.com/watch?v=lkqobb34oLI">https://www.youtube.com/watch?v=lkqobb34oLI</a>	
Describe how biodiversity levels can be maintained	