

Triple Biology: Higher Revision list with hyperlinks

<u>Chapter 1</u>	
Eukaryotes and prokaryotes Outline the subcellular components found in prokaryotes and eukaryotes. Explain the function of subcellular components found in animal and plant cells. https://www.youtube.com/watch?v=QCCp-Y_-7J0	
Understand how microscopy techniques have developed over time Outline the difference between resolution and magnification https://www.youtube.com/watch?v=VBdVARYWq1c	
RPA 1 Use of light microscopes to observe plant cells https://www.youtube.com/watch?v=jBVxo5T-ZQM	
Outline the features of specialist cells to describe how they are adapted to their function. Define the term 'Cell differentiation' to include stem cells. https://www.youtube.com/watch?v=XOGMp8oM_2E	
Culturing microorganisms https://www.youtube.com/watch?v=sI2Dp5fNdDY	
Outline the process of diffusion and explain the factors which affect the rate https://www.youtube.com/watch?v=lxHMJaXOzP4	
Define the term osmosis and apply it to different situations https://www.youtube.com/watch?v=qqe2NhQt8bY	
RPA 3: investigate the effect of a range of concentrations of salt solution on the mass of plant tissue. https://www.youtube.com/watch?v=ef2Ts2AKhq8	
Define the term 'Active transport' and apply it to different situations https://www.youtube.com/watch?v=vrOOQI8jRvA	
<u>Chapter 2</u>	

<p>Recall the organs of the digestive system which work together to digest and absorb food</p> <p>https://www.youtube.com/watch?v=Ov7tfPO62xk</p>	
<p>Describe the nature of enzymes molecules and the factors that affect their activity.</p> <p>https://www.youtube.com/watch?v=VNX9UQ08fZ4</p> <p>https://www.youtube.com/watch?v=qq1foXnvJao</p>	
<p>RPA 4: use qualitative reagents to test for a range of carbohydrates, lipids and proteins.</p> <p>https://www.youtube.com/watch?v=SqWTJWOBww4</p>	
<p>Describe the structure and function of the heart</p> <p>https://www.youtube.com/watch?v=y1DsaAzYamQ</p>	
<p>Describe the structure and function of blood vessels and how this links to their function</p> <p>https://www.youtube.com/watch?v=ALSQEs694qY</p>	
<p>Coronary heart disease: a non-communicable disease</p> <p>Health issues</p> <p>The effect of lifestyle on some non-communicable diseases</p> <p>https://www.youtube.com/watch?v=Td1itX2IMss</p>	
<p>Plant tissues</p> <p>Plant organ system</p> <p>https://www.youtube.com/watch?v=svCLQQwo5PU</p>	
<p><u>Chapter 3</u></p>	
<p>Communicable (infectious) diseases</p> <p>Name and give examples of viral diseases in both plants and animals.</p> <p>Name and give examples of bacterial diseases in both plants and animals.</p> <p>Name and give examples of fungal diseases in both plants and animals.</p>	

<p>Name and give examples of protista diseases in animals.</p> <p>https://www.youtube.com/watch?v=dbd5iydu3EY</p>	
<p>Describe the non-specific defence systems in the human body</p> <p>https://www.youtube.com/watch?v=5X9MkILVhlw</p>	
<p>Explain how vaccinations prevent illness. Describe how vaccines cause the body to quickly produce the correct antibody</p> <p>https://www.youtube.com/watch?v=23fQscOSqVU</p>	
<p>Describe how monoclonal antibodies produced. Give uses of monoclonal antibodies</p> <p>https://www.youtube.com/watch?v=XrUW54Ea598</p>	
<u>Biology Paper 2</u>	
<u>Chapter 5</u>	
<p>Explain how the structure of the nervous system is adapted to its functions Name and recall the order of the CNS response</p> <p>https://www.youtube.com/watch?v=oDS1hAqWp2M</p>	
<p>RPA 7: carry out an investigation into human reaction times</p> <p>https://www.youtube.com/watch?v=Ws5qVXYHRnQ</p>	
<p>Outline how body temperature is monitored and controlled by the thermoregulatory centre.</p> <p>https://www.youtube.com/watch?v=IGsQi0JZUTw</p>	
<p>Label the following glands - pituitary gland; pancreas; thyroid; adrenal gland; ovary and testes</p> <p>https://www.youtube.com/watch?v=c6olhi88KZs</p>	
<p>Describe how blood glucose levels are monitored and controlled Explain the negative feedback cycle in terms of blood glucose</p> <p>https://www.youtube.com/watch?v=OHrX3X3LGzI</p> <p>Describe Type 1 and Type 2 diabetes - causes and treatments</p>	

<p>https://www.youtube.com/watch?v=bFnO8Uc9gjQ</p>	
<p>Maintaining water and nitrogen balance in the body</p> <p>https://www.youtube.com/watch?v=-DVdygQqGwQ</p>	
<p>Hormones in human reproduction</p> <p>https://www.youtube.com/watch?v=iXswGsfeHJg</p>	
<p>Control and coordination in plant hormones</p> <p>https://www.youtube.com/watch?v=PxSkuyjZ3MM</p>	
<p>Required practical activity 8: investigate the effect of light on the growth of newly germinated seedlings</p> <p>https://www.youtube.com/watch?v=fEo21LbnJJM</p>	
<p><u>Chapter 6</u></p>	
<p>Sexual and asexual reproduction</p> <p>Meiosis</p> <p>Advantages and disadvantages of sexual and asexual reproduction</p> <p>https://www.youtube.com/watch?v=Fh9b6a-3DLQ</p>	
<p>DNA and the genome</p> <p>DNA structure</p> <p>https://www.youtube.com/watch?v=o4LHU79fB3s</p>	
<p>Genetic inheritance</p> <p>Inherited disorders</p> <p>https://www.youtube.com/watch?v=Vk8xu9LAW1E</p>	
<p><u>Chapter 7</u></p>	
<p>Levels of organisation</p> <p>https://www.youtube.com/watch?v=6t30hAabK58</p>	

How materials are cycled https://www.youtube.com/watch?v=arw2R5tI4Yk	
Decomposition https://www.youtube.com/watch?v=6utMftGxuaI	
Impact of environmental change https://www.youtube.com/watch?v=fZxw0QiaSN4	
RPA 9: measure the population size of a common species in a habitat https://www.youtube.com/watch?v=RhMOCxXcDrQ	

Fundamental Biology: These could easily be 1 or 2 mark answers

- Word equations for photosynthesis, aerobic respiration and anaerobic respiration.
- Stem cells and cell differentiation