

<p>6th Form Preparation work for A Level Biology</p>	 <p>1 - Complete a mind map on aerobic and anaerobic respiration. You must include the equations, the organelle where it takes place and the importance of respiration in living organisms. Use the link below to BBC Bitesize to help you. Ensure you complete this task before moving onto task 2.</p> <p>Respiration – BBC Bitesize</p>	 <p>2 - Read the article and write a report of its findings. Your report should include the following: What is <i>Henneguya salminicola</i> and what is unusual about it? Link to aerobic respiration. What was found when scientists sequenced and analysed its genome? Why is this discovery significant for evolutionary research?</p> <p>Henneguya salminicola</p>	 <p>3 - Listen to the podcast “The frozen zoo”. Create a table stating some advantages and disadvantages of the frozen zoo and its role in conservation.</p> <p>The Frozen Zoo</p>
 <p>4 - Read about some of the careers that studying biology could lead you into. You may already have an idea of careers that you may like to pursue, or this may give you a first glimpse into the huge variety of pathways available to biology students. Create a shortlist of some possible career pathways that interest you.</p> <p>Careers in Biology</p>	 <p>5 - Watch the Ted talk video on stem cells. Consider the uses of stem cells and what possible ethical implications may arise due to their use.</p> <p>What are stem cells?</p>	 <p>6 - Watch the video on how to produce biological drawings. Using the internet, find a photograph of cells seen through a microscope. Then, following the video, complete your own biological drawing of the cells. Label any of the cell structures you can see.</p> <p>Producing Biological Drawings</p>	 <p>7 - Complete an instruction manual on unit conversion. You must explain how to convert between:</p> <ul style="list-style-type: none"> • km/m/cm/mm/μm/nm • kg/g/mg/μg • h/min/s/ms • m²/cm² • dm³/cm³/μl <p>Ensure you include what each abbreviation stands for e.g. cm = centimetres</p> <p>Time: 1 hour</p>
 <p>8 - Watch the Crash Course video on Biological Molecules. Produce a bubble map for each of the 3 biological molecules discussed. Write a list of the words in the video that you do not understand. Research their meaning and create a key word glossary of these terms.</p> <p>Biological Molecules Time: 30 minutes</p>	 <p>9 - Read the article on protein. Proteins are large biological molecules found in all living organisms. Consider the diversity of proteins and their wide variety of functions in living things.</p> <p>Protein</p>	 <p>10 - Watch the Crash Course video on DNA Structure and Replication. Write down 10 facts from the video. Write a list of the words in the video that you do not understand. Research their meaning and create a key word glossary of these terms.</p> <p>DNA Structure and Replication Time: 30 minutes</p>	