

## YEAR 9 A-F - BIOLOGY

WEEK 5 (27<sup>th</sup> September to 1<sup>st</sup> October)

Work sent to students through Class Bio Whats App Group/G mail/Google Classroom

### Topics 1a: Microscopes

- L.O.: Explain how changes in microscope technology, including electron microscopy, have enabled us to see cell structures with more clarity and detail than in the past.
- Demonstrate an understanding of size and scale in relation to microscopy, including magnification calculations.

<p><b>Sunday-Zero period( boys)</b></p> <p><b>Sunday-7<sup>th</sup> period(girls)</b></p>	<p><b>Zoom Session: Describe</b> how changes in microscope technology, including electron microscopy, have enabled us to see cell structures with more clarity and detail than in the past.</p> <p><a href="https://www.youtube.com/watch?v=YRuX39Owjvc">https://www.youtube.com/watch?v=YRuX39Owjvc</a></p> <p><b>Resources:</b> Video Links &amp; Power point</p> <p><b>Students able to:</b></p> <p><b>Identify</b> and state the function of parts of a light microscope.</p> <p><b>Differentiate</b> the working of light and electron microscope.</p> <p><b>Describe</b> how a microscope can be used to view biological slides.</p>
<p><b>Sunday -1<sup>st</sup> period(boys)</b></p>	<p><b>Zoom Session: Demonstrate</b> an understanding of size and scale in relation to microscopy, including magnification calculations.</p>

<p><b>Wednesday-2<sup>nd</sup> period (girls)</b></p>	<p><b><u>Resources:</u></b> Video Links &amp; Power point</p> <p><a href="https://www.youtube.com/watch?v=VBdVARYWq1c">https://www.youtube.com/watch?v=VBdVARYWq1c</a></p> <p><b>Students able to:</b></p> <p><b>Calculate</b> the magnification of the specimen viewed using the formula <math>M = O / A</math> &amp; the actual length and observed length of a specimen.</p> <p><b>Convert</b> the derived dimensions as required cm- mm/mm- <math>\mu\text{m}</math>/ <math>\mu\text{m}</math>- nm.</p> <p><b>Describe</b> the use of scale bar to calculate actual &amp; measured dimensions.</p>
<p><b>Sunday-2<sup>nd</sup> period(boys)</b> <b>Wednesday -3<sup>rd</sup> period(girls)</b></p>	<p><b>Zoom: GL PRACTICE:</b> Students to complete the GL practice WS. Discussion and clarifying doubts, if any.</p> <p><b><u>Resources:</u></b> Worksheet</p> <p><b>Students able to understand/describe :</b></p> <ul style="list-style-type: none"> <li>●Structure and function of living organisms</li> <li>●Material cycles and energy flow in an ecosystem</li> <li>●Genetics and evolution</li> </ul>