

## YEAR 11 G & H – BIOLOGY (IGCSE)

WEEK 9 (25<sup>th</sup> October to 28<sup>th</sup> October)

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

### Topics 13 : Reproduction in Plants.

**L.O.:** Understand the conditions that are needed for germination of seeds. Describe ways plants reproduce asexually by natural methods (illustrated by runners) and by artificial methods (illustrated by cuttings).

<b>Sunday- 4<sup>th</sup> period</b>	<b>Zoom: Assessment 3</b> via Google Forms (30 marks) on  Topic 12: Chemical Coordination in plants (pgs 168-173) Topic 7: Chemical Coordination (pgs 98-103)  Topic 9: Menstrual cycle (pgs 124-127)
<b>Monday- 7<sup>th</sup> period</b>	<b>Zoom: Practical: <i>Investigate the conditions needed for seed germination.</i></b>  <b>Resources:</b> Textbook, Video Links & Power point. <a href="https://www.youtube.com/watch?v=IW2ASitTC4o">https://www.youtube.com/watch?v=IW2ASitTC4o</a> .  <u>Textbook page : 174 - 181</u>  <b>Students able to:</b>  <b>Identify</b> the conditions needed for germination. <b>Outline</b> a method to investigate the conditions needed for germination. <b>Analyze &amp; interpret</b> the results obtained.
<b>Tuesday – 3<sup>rd</sup> and 4<sup>th</sup> period</b>	<b>Zoom: Understand</b> the methods of asexual reproduction in plants such as runners, tubers, bulbs, cuttings etc.  Discussion of answers to textbook questions on Reproduction in plants.  <b>Resources:</b> Textbook, Video Links & Power point. <a href="https://www.youtube.com/watch?v=AYyqNiLvAx4">https://www.youtube.com/watch?v=AYyqNiLvAx4</a>  <u>Textbook page : 174 - 181</u>  <b>Students able to:</b>  <b>Differentiate</b> between sexual and asexual reproduction. <b>Describe</b> the process of growing a plant from stem

	cuttings. <b>Explain</b> how plants produced by asexual reproduction are identical to the parent.
<b>Wednesday – 5<sup>th</sup> period</b>	<b>GC:</b> Students complete the practical sheet on Investigation of seed germination.  <b>Resources:</b> Practical sheet on factors affecting seed germination

## YEAR 11 A,D&E BIOLOGY (GCSE)

**WEEK 9 (25<sup>th</sup> October to 28th October)**

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

**Topic -\_SB7a-Hormones &\_SB7b-Hormonal control of metabolic rate &**

**Topic -\_SB7c-The menstrual cycle & \_SB7d-Hormones & the menstrual cycle.**

**L.O –** Recap of role of various endocrine organs , hormones in metabolism, menstrual cycle & Assisted Reproductive Technology (ART) including IVF and clomifene therapy

**Core Practical :** Investigate the effects of antibiotics on microbial cultures

<b>Sunday-6<sup>th</sup> period(girls)</b>	<b>Zoom session</b> Discussion of textbook questions.(page 142 to145) (SB7a-Hormones &SB7b –Hormonal control of metabolic rate.)
<b>Monday - 3<sup>rd</sup> period(girls)</b>	<b>Zoom session</b> <b>Assessment via Google forms-30 marks</b> <b>Assessment-3(Topics-SB6e-Plant adaptations &amp; &amp;SB6f-Plant hormones&amp;SB6G- Uses of Plant hormones</b>
<b>Tuesday-7<sup>th</sup> period(girls)</b>	<b>Zoom session</b> Discussion of textbook questions (page 146 to 149) (SB7c-Menstrual cycle &SB7d –Hormones & the menstrual cycle.)
<b>Tuesday-8<sup>th</sup> period(girls)</b>	<b>GC</b> Students to complete the questions text book pages 142 to 145 & turn in their work
<b>Wednesday- 7<sup>th</sup> period (girls)</b>	<b>Zoom session</b> <b>Discussion of core practical-</b> Investigating the effect of antibiotics.(Text book page 118) <b>Students able to</b> <b>●Plan experiment to investigate the effect of antibiotics on growth of</b>

bacteria. ● Identify controlled, independent & dependent variables for the experiment planned ● Describe how each variable can be controlled ● Predict the effect of antibiotics on growth of bacteria.

## YEAR 11 B,C&F BIOLOGY (GCSE)

**WEEK 9 (25<sup>th</sup> October to 28th October)**

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

**Topic - SB7c-The menstrual cycle & SB7d-Hormones & the menstrual cycle.**

**L.O** – Describe the stages of the menstrual cycle, including the roles of the hormones oestrogen and progesterone, in the control of the menstrual cycle. Explain how hormonal contraception influences the menstrual cycle and prevents pregnancy . Evaluate the use of hormones in Assisted Reproductive Technology (ART) including IVF and clomifene therapy and other birth control methods

<p><b>Sunday- 8<sup>th</sup> period(boys)</b></p>	<p><b>Zoom session :7c-Menstrual cycle – Text book pg.146-147</b></p> <p><b>Resources:</b></p> <p><a href="https://www.youtube.com/watch?v=iXswGsfeHJg&amp;t=20s">https://www.youtube.com/watch?v=iXswGsfeHJg&amp;t=20s</a>  <a href="https://www.youtube.com/watch?v=5rsdXadNj-E">https://www.youtube.com/watch?v=5rsdXadNj-E</a></p> <p><b>Students able to</b></p> <ul style="list-style-type: none"> <li>● Define menstrual cycle.</li> <li>● Enlist the hormones involved in the menstrual cycle.</li> <li>● Identify the major stages of the menstrual cycle</li> <li>● Explain in sequence the changes taking place in the uterus &amp; ovary during the menstrual cycle.</li> <li>● Draw &amp; label a graph showing the changes in hormone level during the menstrual cycle</li> </ul>
<p><b>Tuesday -5<sup>th</sup> period (boys)</b></p>	<p><b>Zoom session</b></p> <p><b>Assessment via Google forms-30 marks</b></p> <p><b>Assessment-3(Topics-SB6e-Plant adaptations &amp; &amp;SB6f-Plant hormones&amp;SB6G-Uses of Plant hormones)</b></p>
<p><b>Wednesday- 6<sup>th</sup> period (boys)</b></p>	<p><b>Zoom Session:7d-Hormones and menstrual cycle - Text book pg.148-149</b></p> <p><b>Resources:</b></p> <p><a href="https://www.youtube.com/watch?v=0adWZZhrN-Y">https://www.youtube.com/watch?v=0adWZZhrN-Y</a>  <a href="https://www.youtube.com/watch?v=d4IyKTC6l5s">https://www.youtube.com/watch?v=d4IyKTC6l5s</a></p> <p><b>Students able to</b></p> <ul style="list-style-type: none"> <li>● Identify that there is a sequence in the fluctuation of hormone level during the four phases of the menstrual cycle</li> <li>● Predict the changes in</li> </ul>

the level of hormones, ovary & uterine wall if a woman is pregnant

- Describe negative feedback mechanism involved in menstrual cycle.

- Explain the use of IVF & clomifene therapy ● Compare Hormonal method to barrier method in controlling pregnancy