

<u>TOPIC</u>	<u>LEARNING OUTCOMES</u>	<u>INNOVATIVE/ART INTEGRATION/EXPERIENTIAL LEARNING/INTER DISCIPLINARY</u>
<u>CH-Life Processes</u>	<p><i>The students will be able to:-</i></p> <ul style="list-style-type: none"> ➤ <i>Know the importance of various life processes like nutrition, respiration, Transportation, excretion in plants and animals.</i> ➤ <i>Analyse the various physiological processes related to plants and animals.</i> ➤ <i>Know importance of different organs present in various systems and also how effectively they collaborate which each other so that different systems work effectively.</i> ➤ <i>Draw labelled diagrams of various systems.</i> 	<ul style="list-style-type: none"> ➤ <i>Slide of Stomata prepared and shown (Hand on Learning).</i> ➤ <i>Stomata, Digestive System, Respiratory System, Human Heart and Excretory System will be drawn (Art Integration).</i> ➤ <i>Working Model of Respiratory System (Innovative).</i> ➤ <i>Measurement of Blood pressure (Experiential Learning).</i>
<u>CH-Control And Co-ordination</u>	<ul style="list-style-type: none"> ➤ <i>Identify different parts of 'Human Brain'.</i> ➤ <i>Trace the sequence of events taking place during a reflex action.</i> ➤ <i>Trace the path of nervous impulse through the body.</i> ➤ <i>Distinguish between tropic and nastic movements.</i> ➤ <i>Draw diagrams of Human Brain, Reflex arc and a neuron.</i> ➤ <i>The role of hormones in plants and human.</i> 	<ul style="list-style-type: none"> ➤ <i>Diagrams of Neuron, Reflex arc, Human Brain (Art Integration).</i> ➤ <i>Phototropism and geotropism activities (Experiential Learning)</i>

<p><u>CH-How do organisms reproduce</u></p>	<ul style="list-style-type: none"> ➤ <i>Discuss the importance of reproduction for continuity of generation.</i> ➤ <i>Differentiate between asexual and sexual reproduction.</i> ➤ <i>Draw different modes of asexual reproduction.</i> ➤ <i>Understand the importance of birth control methods.</i> ➤ <i>Know the organs of male and female reproductive system.</i> ➤ <i>Discuss the menstrual cycle.</i> ➤ <i>Appreciate the importance of government in banning prenatal sex determination.</i> ➤ <i>Learn the prevention methods of sexually transmitted diseases(STD's).</i> 	<p>Fragmentation</p> <ul style="list-style-type: none"> ➤ <i>Algae(Spirogyra)slide.</i> ➤ <i>Budding in amoeba and hydra.</i> ➤ <i>Structure of flower parts will be shown.</i> ➤ <i>Parts of embryo will be shown by showing sprouted seeds(Hands on Learning).</i> ➤ <i>Diagrams of flower, Male and Female reproductive system(Art Integration).</i> ➤ <i>Section(V.S.)of flower(Hands on Learning).</i>
<p><u>CH-Heredity</u></p>	<ul style="list-style-type: none"> ➤ <i>Critically analyse the importance of sexual reproduction as an element of genetic variation.</i> ➤ <i>Study the laws of inheritance given by Mendel.</i> ➤ <i>Know why Mendel selected garden pea plant for his study.</i> ➤ <i>Draw Monohybrid and Dihybrid cross.</i> ➤ <i>Study cross of sex determination.</i> 	<ul style="list-style-type: none"> ➤ <i>Monohybrid Dihybrid cross will be drawn(Integration with maths).</i> ➤ <i>Cross of sex determination(Art integration, Interdisciplinary with maths).</i> ➤ <i>Flowers of Pisum Sativum to observe contrasting characters.</i>

CH-Our Environment

- ***Construct food chains and food webs.***
- ***Know ecosystem and classify it into Biotic and Abiotic components.***
- ***Appreciate the role of decomposers in nature.***
- ***10% law of energy flow and bio-magnification.***

- ***Food chains and trophic level will be drawn.***
- ***Biodegradable and Non biodegradable wastes.***