



AUGUST	CH-6 RESPIRATION IN ORGANISMS	LEARNERS WILL BE ABLE TO: *Define & understand the term respiration *Differentiate between aerobic & anaerobic respiration *Compare the process of respiration in Plants and Animals.	*Interaction and discussion *Chalk and Board *Flow chart *Demonstration method *Working model to show mechanism of breathing in human.	<a href="https://youtu.be/cDNrxiAUeGJ?si=eILUcHmM9vR3gJxM">https://youtu.be/cDNrxiAUeGJ?si=eILUcHmM9vR3gJxM</a>	Students know about the aerobic and anaerobic respiration. They know the mechanism of inhalation and exhalation. They can record the change in chest size while inhalation and exhalation. They will apply warm water in case of muscle cramps in order to get relief. SKILLS: *Experimentation *Observation *Analysis *Critical thinking
AUGUST	CH-7 TRANSPORTATION IN PLANTS AND ANIMALS	LEARNERS WILL BE ABLE TO: *Define transportation & understand the need of transportation in plants & animals. *Know the process of transportation in plants & animals. *Understand the basic structure & function of human heart. *Know the composition & functions of human blood. *Explain the process of excretion in animals & humans.	*Interaction & discussion *Chalk and Board *Demonstration and explanation of model of human circulatory system *Model of stethoscope *Experiential learning activity- Measuring & noting down the heart beat of family members	<a href="https://www.youtube.com/watch?v=P-wOP_6MgZw">https://www.youtube.com/watch?v=P-wOP_6MgZw</a>	Students know about the various components of blood and their functions. They can calculate the pulse rate and feel the heart beat. They know the structure of heart and its function. They are aware about the fact that the wastes have to be eliminated out from the body as they are toxic. They are equipped with the role of kidney and other parts involved in excreting wastes in human beings and other animals. SKILLS: *Experimentation *Observation *Analysis *Critical thinking *Drawing and labelling
SEPTEMBER	REVISION	LEARNERS SHOULD BE ABLE TO: Revise all the concepts in a proper manner and clear their doubts, for Term I Examination.	*Interaction and discussion method in the class		SKILLS: Skills of inquiry and learning
<b>TERM II EXAMINATION</b>					
OCTOBER	CH-8 REPRODUCTION IN PLANTS	LEARNERS SHOULD BE ABLE TO : *Understand Asexual reproduction in plants * know the artificial methods of vegetative propagation *understand Sexual reproduction in plants *know about the structure of flower *understand the process of fertilization and seed dispersal	*Classroom discussion and explanation *Chalk and board *Demonstration on method *Lab activity- Dissecting a flower and identifying its parts like stamen ,pistil etc	<a href="https://www.youtube.com/live/57fYYygNr2OQ?si=5jIKML7iQuKvJqpl">https://www.youtube.com/live/57fYYygNr2OQ?si=5jIKML7iQuKvJqpl</a>	Students know about the various techniques involved in asexual reproduction in plants. They are aware about the advantages of vegetative propagation over sexual reproduction. They know the various parts of china rose and their importance. They feel the importance of various agents of seed dispersal which ultimately increases the number of crops and variety. SKILLS: *observation *Experimentation *Drawing and labelling
OCTOBER	CH-9 MOTION AND TIME	LEARNERS WILL BE ABLE TO: *Understand uniform and non uniform motion *Understand the concept of speed and average speed * Explain about the dependent and independent quantities and how they are used in the graph. Explain the various technological advancements regarding finding out time starting from the periodic events to the digital clocks. *Know different units of motion and time.	*Classroom discussion and explanation *Chalk and Board *Showing a model of simple pendulum. *Distance- time graphs	<a href="https://www.youtube.com/live/pCz6OvTw9tk?si=Aapd0PkkWXuUcBYo">https://www.youtube.com/live/pCz6OvTw9tk?si=Aapd0PkkWXuUcBYo</a>	Students are acknowledged with uniform and non-uniform motion. They can compare the speeds by observing the pattern obtained in graph. They can plot distance-time graphs. SKILLS: *Experimentation *observation *conclusion
NOVEMBER	CH-10 ELECTRIC CURRENT AND ITS EFFECTS	LEARNERS WILL BE ABLE TO : *Understand components of electric circuit and draw their symbols. * Understand why heat is produced when an electric current is passing through a wire. * Explain importance of heating effects of electric current in our daily life *Explain the uses of electromagnet *Understand the working of electric bell.	*Classroom discussion and explanation *Chalk and Board *Questioning *Flowchart *Lab Activity- Demonstration of working of a simple electric circuit and knowing the role of its various components.	<a href="https://www.youtube.com/live/BWSZz_0MD5Y?si=LAOFXl0pdwqc0eOK">https://www.youtube.com/live/BWSZz_0MD5Y?si=LAOFXl0pdwqc0eOK</a>  <a href="https://youtu.be/4HT2s7O1g8?si=_1rovKtH6MR4tTBW">https://youtu.be/4HT2s7O1g8?si=_1rovKtH6MR4tTBW</a>	Students know that electric current produces heating effect and magnetic effect. They are aware about the advantage of CFL over electric bulb. They can relate the concept to real life situations like cranes use electromagnets for lifting heavy objects. They know about the use of fuse wire. SKILLS: *Experimentation *Observation *Conclusion
NOVEMBER	CH-11 LIGHT	LEARNERS WILL BE ABLE TO : *Understand the two laws of reflection. *Understand the concept of reflection by mirrors/shiny surfaces. *Comprehend the working of plane mirrors and spherical mirrors to propagate light. * Differentiate between real and virtual image. *Identify different types of lenses and mirrors	*Classroom discussion and explanation *Chalk and Board *Questioning *Showing of mirrors and lenses in lab. Lab Activity- To verify law of reflection of light.	<a href="https://youtu.be/8iC6tK157fE?si=Wzic9a7dymTRxO">https://youtu.be/8iC6tK157fE?si=Wzic9a7dymTRxO</a> <a href="https://www.youtube.com/live/LCraAlE-TNU?si=2USKBecY1GmOduC">https://www.youtube.com/live/LCraAlE-TNU?si=2USKBecY1GmOduC</a>	Students are acquainted with the properties and uses of spherical lenses and mirrors. They can identify the concave and convex mirror found in their daily life like rear view mirror uses the convex mirror while a dentist uses the concave mirror. SKILLS: *Experimentation *Observation *Conclusion

DECEMBER	CH-12 FORESTS- OUR LIFELINE	<p>LEARNERS WILL BE ABLE TO:</p> <ul style="list-style-type: none"> <li>*Understand components of forest like plants, animals, decomposers, air, water and soil.</li> <li>*Understand Structure of forest.</li> <li>*Understand role of forest in maintaining the environmental balance.</li> <li>*Develop awareness towards nature and animals.</li> <li>* Develop sensitivity towards conservation of forests</li> </ul>	<ul style="list-style-type: none"> <li>*Classroom discussion and explanation</li> <li>*Crossword puzzle</li> <li>*Chalk and Board</li> </ul>	<a href="https://www.youtube.com/live/A1jN9NGqlvA?si=KmI360EGwsNr1SFZ">https://www.youtube.com/live/A1jN9NGqlvA?si=KmI360EGwsNr1SFZ</a>	<p>Students now know about the importance of every living organism through food chain. They are aware about the role of forests in our life. SKILLS:</p> <ul style="list-style-type: none"> <li>*Skill of sequencing</li> <li>*Inclusion of all the steps</li> <li>*Scientific Values</li> </ul>
JANUARY	CH-13 WASTE WATER STORY	<p>LEARNERS WILL BE ABLE TO:</p> <ul style="list-style-type: none"> <li>*Know the terms sewage ,sewers, contaminants and sewage treatment</li> <li>*Understand the importance of drainage systems</li> <li>*Understand the various steps involved in the sewage treatment</li> <li>*impart an active role in keeping the environment clean.</li> </ul>	<ul style="list-style-type: none"> <li>*Classroom discussion and explanation</li> <li>*Chalk and Board</li> <li>*Flowchart for steps involved in waste water treatment</li> <li>*Activity- Listing of the types of wastes formed on daily basis at home and list it as kitchen waste, sewage, dry waste, bio - waste, E – waste and the diseases associated with the waste water.</li> </ul>	<a href="https://www.youtube.com/live/hOnJwOZhrpE?si=Lr7sr1SN8bFiNaMw">https://www.youtube.com/live/hOnJwOZhrpE?si=Lr7sr1SN8bFiNaMw</a>	<p>Learners will understand the types of wastes released due to different activities. They will understand the steps associated with the purification of sewage. Learners will create awareness amongst others about the importance of the proper drainage system. SKILLS:</p> <ul style="list-style-type: none"> <li>*Skill of sequencing</li> <li>*Inclusion of all the steps</li> <li>*Scientific temper</li> <li>*Skill of identification</li> </ul>
FEBRUARY	REVISION	<p>LEARNERS SHOULD BE ABLE TO :</p> <p>Revise all the concepts in a proper manner and clarify their doubts and prepare themselves for Final Term</p>	<ul style="list-style-type: none"> <li>*Interaction and discussion method in the class</li> </ul>		<p>SKILLS:</p> <p>Skills of inquiry and learning</p>