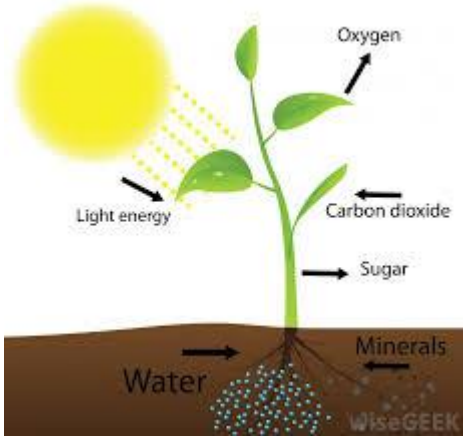

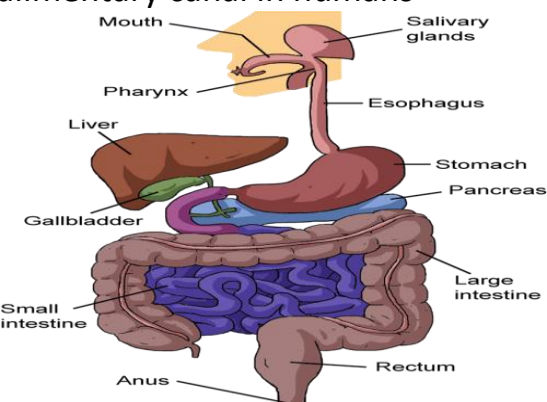



LESSON TITLE : Nutrition in Plants


TOPIC	ACTIVITIES	VALUES/TRAITS
<p>(1) Autotrophic Nutrition- Photosynthesis</p> <p>(2) Heterotrophic Nutrition-</p> <p>2(a) Parasitic plants</p> <p>2(b) Saprophytic plants</p> <p>2(c) Insectivorous plants</p> <p>2(d) Symbiotic plants</p>	<p>Lab Based Activities</p> <p>Activity(1) : To show that only green plants can photosynthesize</p> <p>Activity(2) : To demonstrate that CO₂ is needed for photosynthesis</p>  <p>Home Activity</p> <p>Activity(3) : To grow fungi</p> <p>Activity(4) : Make a ppt on insectivorous plants</p> 	<p>Analytical skills</p> <p>Experimental skill</p> <p>Observational skill</p> <p>Technical skill,</p> <p>Creative thinking</p>


LESSON TITLE : Nutrition in Animals

TOPIC	ACTIVITIES	VALUES/TRAITS
<p>(1) Nutrition in unicellular organisms- Amoeba</p> <p>(2) Nutrition in multicellular organisms- Human beings</p>	<p align="center">Lab Based Activities</p> <p>Activity(1) : To observe amoeba present in dirty water</p> <p align="center">Diagram Based Activity</p> <p>Activity(2) : Draw a chart of alimentary canal in humans</p>  <p>Activity(3) : Draw a chart of Digestive system of Ruminant</p>	<p>Analytical skills</p> <p>Observational skills</p> <p>Drawing skill , creativity skill & knowledge skill</p>


LESSON TITLE : Fibre to Fabric

TOPIC	ACTIVITIES	VALUES/TRAITS
<p>(1) Wool & Wool Giving Animals</p> <p>(2) Process of Wool Production</p> <p>(3) Silk & Life Cycle of Silk Moth</p> <p>(4) Process of Silk Production-Sericulture</p>	<p align="center">Research Based Activity</p> <p>Activity(1) : Collect different types of fabrics and paste in your note-book/chart</p> <p align="center">Group Activity</p> <p>Activity(2) : A burn test for different types of fabrics (under teacher supervision)</p> 	<p>Analytical skills</p> <p>Knowledge skill</p> <p>Team Work & Interpersonal relationship</p>

LESSON TITLE : <u>Chemicals And Chemical Changes</u>		
TOPIC	ACTIVITIES	VALUES/TRAITS
<p>(1) Chemical substances- Elements, Compounds & Mixture</p> <p>(2) Chemical Substances</p> <p>(3) Chemical Formulae</p> <p>(4) Chemical Equations</p> <p>(5) Chemical Changes—</p> <p>(a) Rusting</p> <p>(b) Vinegar +Baking soda</p> <p>(c) $\text{CuSO}_4 + \text{Fe}$</p>	<p>Activity(1) : Group discussion “Compare Elements ,Compound & Mixture”</p> <p>Lab Activities Activity(1) : Rusting of iron</p>  <p>Activity(2) : Reaction between vinegar & baking soda to form CO₂</p> <p>Activity(3) : Reaction between copper sulphate & iron</p>	<p>Effective Communication</p> <p>Analytical skills</p> <p>Observational skill</p> <p>Innovative thinking</p> <p>Experimental skill</p> <p>Problem solving in daily life</p>
LESSON TITLE : <u>Acids, Bases, and Salts</u>		
TOPIC	ACTIVITIES	VALUES/TRAITS
<p>(1) Acids-Bases Properties, Types & Uses</p> <p>(2) Indicators</p>	<p>Lab Based Activities Activity(1) : Touch &Taste Activity</p>	<p>Analytical skills</p> <p>Observational skill</p> <p>Innovative thinking</p> <p>Experimental skill</p>

<p>(3) Universal indicators and pH values</p>		<p>Problem solving in daily life</p>
<p>(4) Neutralization Reaction</p>		<p>Environment awareness</p>
<p>(5) Water of Crystallization</p>		<p>Activity(2) : Litmus test to check whether the compound is an acid or a base.</p> <p>Activity(3): Phenolphthalein test</p> <p>Activity(4): Methyl orange test</p> <p>Activity(5): pH paper test</p> <p>Activity(6): Turmeric paper test</p> <p>Activity(7): Neutralization reaction</p>

LESSON TITLE : Heat & Temperature


TOPIC	ACTIVITIES	VALUES/TRAITS
<p>(1) Temperature Scales & Its Units</p> <p>(2) Types of Thermometers</p> <p>(3) Heat Energy & Modes of Heat Transfer</p> <p>(a) Conduction</p>	<p>Lab Based Activities</p> <p>Activity(1): How to read a thermometer</p> 	<p>Analytical & Logical thinking</p> <p>Observational skill</p> <p>Scientific Temperament</p> <p>Innovative thinking</p> <p>Awareness about some Natural Phenomena</p>

<p>(b) Convection (c) Radiation</p> <p>(4) Structure of Thermos Flask</p>	<p>Activity(2): To measure the temperature of different objects like chilled water, hot water etc.</p>	<p>Knowledge about some devices used in daily life</p>
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LESSON TITLE : Soil

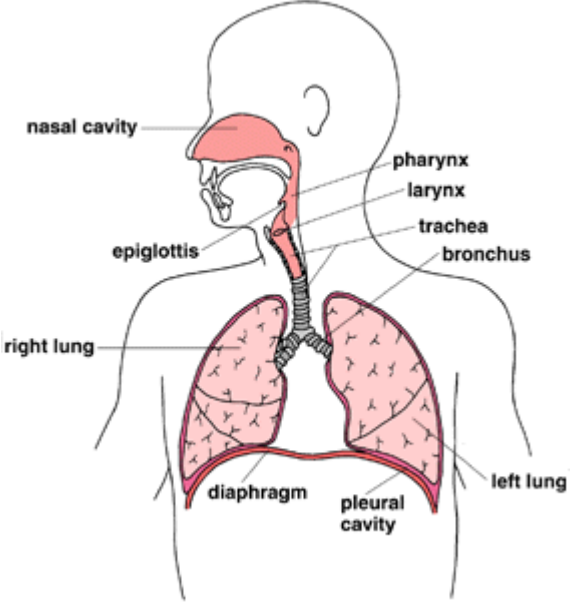
TOPIC	ACTIVITIES	VALUES/TRAITS
<p>(1) Soil Formation</p> <p>(2) Soil Profile</p> <p>(3) Composition Of Soil</p> <p>(4) Properties of Soil</p> <p>(5) Types Of Soil</p> <p>(6) Soil Erosion</p> <p>(7) Soil Pollution</p>	<p align="center">Group Activities</p> <p>Activity(1): To separate the various constituents of a soil sample into different layers</p> <p>Activity(2): To find out the amount of water absorbed as a percentage of the weight of soil</p> <p>Activity(3): To find percolation rate of water</p> <p>Activity(4): Field trip to the 'Herbal Garden of School'</p>	<p>Awareness about some Natural Resources</p> <p>Love for Mother Earth</p> <p>Team spirit</p> <p>Responsibility about environment</p>

LESSON TITLE : Time & Motion

TOPIC	ACTIVITIES	VALUES/TRAITS
<p>(1) Time & clocks used in ancient time</p> <p>(2) Pendulum clock & Simple Pendulum</p> <p>(3) Speed</p> <p>(4) Distance-Time Graph</p> <p>(5) Uniform & non-</p>	<p align="center">Individual Activity</p> <p>Activity(1): To make a sand clock , water clock or sun dial</p> 	<p>Respect for Scientific developments</p> <p>Innovative thinking</p> <p>Public Awareness</p>

uniform motion	<p>Activity(2): Observe the reading of speedometer & odometer of your father's vehicle</p> <p>Activity(3): To plot distance-time graph for uniform & non-uniform motion</p>
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LESSON TITLE : Respiration in Organisms

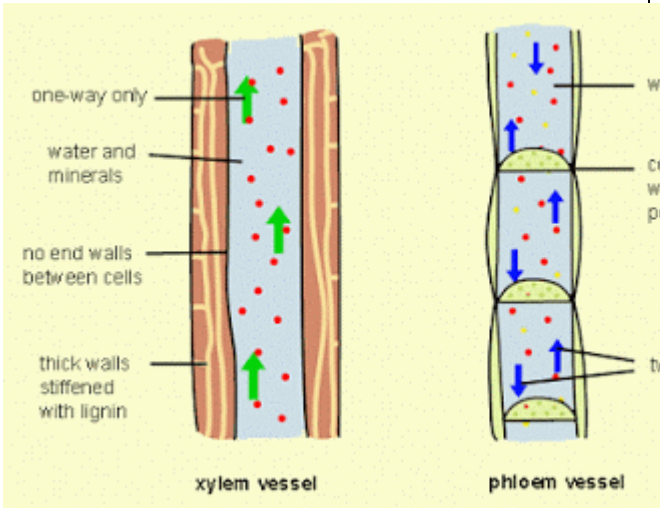
TOPIC	ACTIVITIES
<p>(1) Respiration- Aerobic & Anaerobic</p> <p>(2) Respiratory System in Humans</p> <p>(3) Respiratory System in other animals</p> <p>(4) Respiratory System in Plants</p>	<p>Activity(1): Make a model to demonstrate how the Diaphragm works during breathing</p> <p>Activity(2): To measure the size of the chest and feel Diaphragm</p>  <p>Activity(3): To measure the breathing rate</p> <p>Activity(4): To show that heat is released during respiration</p>

VALUES/TRAITS
<p>Analytical skills</p> <p>Creativity skill</p> <p>Knowledge skill</p> <p>Observational skill</p> <p>Logical & reasoning skills</p> <p>Awareness about Health & Fitness</p>

LESSON TITLE : Transportation in Animals & Plants

TOPIC	ACTIVITIES
<p>(1) Circulatory System- Transportation</p>	<p>Activity(1): To measure the pulse-rate</p> <p>Activity(2): To make a model of</p>

VALUES/TRAITS
<p>Analytical skills</p> <p>Creativity skill</p>

<p>(2) Functions of Blood</p> <p>(3) Heart-Structure & function</p> <p>(4) Transportation in Plants</p> <p>(5) Excretory System-Humans & Plants</p>	<p>Stethoscope</p> <p>Activity(3): To show translocation through Xylem & food through Phloem</p>  <p>Activity(4): Make a chart or model of Human Excretory System</p>	<p>Knowledge skill</p> <p>Observational skill</p> <p>Logical & reasoning skills</p> <p>Awareness about Health & Fitness</p>