



SPLIT UP OF SYLLABUS (2017-18)

T	A	M	Unit/Chapter	Concepts/Sub topic	Learning Outcomes	Essential Questions
TERM 1	FORMATIVE ASSESMENT 1	April	1.How Do Plants Live. 2.Heat and Temperature	Distinguish Autotrophic and Heterotrophic nutrition Examine and Explain How Do Animals Take Food.	The students learn about different types of nutrition in organisms. Lab activities. -To test presence of chlorophyll in green leaf The students observe video about nutrition in man and amoeba, digestive system in man and types of teeth.	Compare and contrast different types of nutrition in organisms. Draw digestive system in man Draw different types of teeth
			3.Elements, symbols and chemical formula.	Temperature and its measurements. -Mechanism of heat flow. -Application of conduction, convection and radiation	Lab activities. -Permanent slides of amoeba, hydra. -Experiments -The students learn about the importance of heat and temperature in life. The students learn about the importance of heat and temperature in life.	Questions related to daily life situations.
				- Identify - Elements and symbolic notations Analyzing different chemical reactions .	Symbolic notations of elements. Balancing chemical equations -The students learn elements, symbols and chemical formulae.	. MCQ Solving more examples



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		SYSTEM			
		May	June		
FORMATIVE ASSESSMEN2	May	1.Changes in matter. 2.How do animals take food?	Analysing different chemical reactions . Differentiate Chemical Changes and physical changes -In a chemical reaction new substance is formed.	Experiments involving rusting of iron, neutralization, displacement of Cu from CuSO ₄ . <ul style="list-style-type: none"> The students learn about the chemical reactions occurring in nature. Power point presentation Analyzing different reactions. 	<ul style="list-style-type: none"> Compare the characteristics of physical and chemical changes. Daily life questions related to topic
	June	1.Soil 2.Motion and Time 3 .Natural Fibers	Analysis of different layers of soil Percolation rate in different soil Analyzing the Idea of speed and time,- slow and fast Wool, Silk- animal fibers .Extraction of silk.	Collecting different soil samples and its analysis. <ul style="list-style-type: none"> Lab activity to compare percolation rate in soil Observing video about the importance of speed and time in life. Observing video about the importance of speed and time in life. The students learn about the extraction of silk. Power point presentation	<ul style="list-style-type: none"> Describe the rate of percolation in different soils Numericals Project Work
	September	1.Motion and Time . 2.Weather,Climatic changes and Adaptations.	Observe the Adaptation of animals to different climates	Observing PPT and video about the adaptations in animals Analysis of characteristic features of animals from different adaptations.	Comparison of characteristic feature of animals I polar region and grass land.



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GRADE: 7

Subject: Science

Teacher Name: Reemol Abraham

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TERM 2	FORMATIVE ASSESSMENT 3	October	1. Respiration in Organisms	Analyzing the mechanism of breathing in human beings.	<ul style="list-style-type: none"> Video observation about mechanism of respiration In human beings. 	<ul style="list-style-type: none"> Correlate the mode of respiration in different animals from daily life.
			2. Water - A life giving liquid	Differentiate Hard and Soft water Conservation of water	Lab activity to experience characteristics of hard and soft water Steps to conserve water	Compare and contrast hard and soft water
			3. Light and associated phenomena	Define Reflection of light, Real and virtual images, White light is composed of many colors.	Define Reflection of light, Real and virtual images, White light is composed of many colors. Focus formation in concave and convex lens through Experiments.	Compare concave and convex mirror focus . Draw focus of concave and convex lens.
		November	1. Transportation And excretion	Transport of food and water in animals, circulatory system	<ul style="list-style-type: none"> Transport of food and water in plants and animals, circulatory system, excretory system, sweating. The students learn about circulatory system in animals, plants, excretory system in animal and comparison with plants. -The students learn about the process of sweating. 	<ul style="list-style-type: none"> Draw structure of human heart and label the parts
2. Water - a life giving liquid	Various forms of water, scarcity of water and its effects.		The students learn about the importance of water, scarcity and its effects.	<ul style="list-style-type: none"> Explain the different methods of conservation of water 		



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FORMATIVE ASSESSMEN 4	December	<p>1 Acids, Bases and Salts</p> <p>2. The electric current and its effects.</p> <p>3. Transportation and Excretion in organisms</p>	<p>Classification of substances into acidic, basic and neutral materials, Indicators</p> <p>Analysing Symbols for circuit, fuse, heating effect of current, magnetic effect of current.</p>	<ul style="list-style-type: none"> Lab activities to show solutions are acidic or basic with turmeric, litmus paper, Chemical reactions Making models of electric circuits and electric bell and its analysis. <p>The students learn about circulatory system in animals, plants, excretory system in animal and comparison with plants.</p> <ul style="list-style-type: none"> -The students learn about the process of sweating. 	<p>MCQ</p> <p>Inference of lab visit</p> <p>Describe about the effect of current, fuse and magnets in daily life.</p>
	January	<p>1. The electric current and its effects.</p> <p>2. Transportation and Excretion in organisms</p> <p>3. Acids Bases and Salts</p> <p>3. Reproduction in Plants</p>	<p>Analyzing asexual and sexual reproduction in plants, pollination, fertilization, fruits and seeds.</p>	<p>Video on working of electric bell and principle behind it.</p> <p>Lab activity to show the differences in the uses of acids and bases in daily life situations</p> <p>Video lessons for the topic.</p> <p>Lab experiment for analyzing the parts of flower</p>	<ul style="list-style-type: none"> Draw parts of electric bell <p>Draw and label parts of flower.</p> <p>Explain the mode of vegetative propagation in plants</p>



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	TEM	February	1.Reproduction in plants 2.Waste Water Management	Asexual and sexual reproduction in plants, pollination, fertilization, fruits and seeds Steps in waste water treatment plant	Lab activities to show propagation in various plants, worksheets Steps in waste water treatment plant -The students learn about the need for the drainage system Written assignment and group discussion.	Explain the steps involved in waste water treatment
		March				•