

VIDYA PRATISHTHAN'S NEW BAL VIKAS MANDIR PIMPLI, BARAMATI
Annual Curriculum Plan for Science (2023-24)

Std : VIII A,B & C

Month	Topic	Learning Outcomes	Subject Enrichment Activity
April	Chapter No. 1 Crop Production and Management	<p>Students will be able:</p> <ul style="list-style-type: none"> i. To understand the different types of crops. ii. To know the basic practices in crop production, irrigation, the tools used in the field etc. iii. To understand how harvesting and storage of crops is done. 	<p>Collect new agricultural machine pictures and paste with their names and uses.</p>
	Chapter No. 2 Microorganisms : Friend and Foe	<ul style="list-style-type: none"> i. Students will learn about various types of microorganisms both useful and harmful. ii. They will study the commercial use of microorganisms and disease-causing microorganisms. iii. They will also understand how to preserve food by various methods. iv. Students will learn about Nitrogen-fixation and Nitrogen Cycle. 	<p>Lab Activity: Students will observe the permanent slides of Paramecium and Spirogyra under compound microscope.</p>
June	Chapter No. 11 Force and Pressure	<ul style="list-style-type: none"> i. Students will be able to understand the concept of force and its effects. ii. They will explore contact and non-contact forces. iii. Students will learn about the pressure exerted by liquids and gases and atmospheric pressure. 	<p>Experiential Learning Activity Students will write information on any five types of forces and their applications in day to day life.</p>

First Unit Test, June 2023



July	<p>Chapter No. 12 Friction</p> <p>Chapter No. 4 Materials: Metals and Non-metals</p>	<p>i. Students will understand the concept of friction and the factors affecting it. ii. They will understand why it is called as necessary evil. iii. Students will gain knowledge about the different types of friction such as fluid friction, rolling friction, sliding friction and static friction.</p> <p>i. Students will be able to explain the difference between metals and non-metals. ii. Students will study about different types of reactions. iii. Students will be able to tell the uses of metals and non-metals.</p>	<p>Collect the information on differences between grease and oil used as lubricants.</p> <p>Students will prepare Index cards of any three metals or any three non-metals. The students should write the information like the name and symbol of the metal /non-metal and its uses on the card.</p>
August	Chapter No. 7 Conservation of Plants and Animals	<p>i. Students will learn the causes and consequences of deforestation. ii. they will learn about endemic species. iii. Students will be able to explain the importance of wild life sanctuaries, National parks etc.</p>	Virtual visit to Gir National Park.
September	Revision for First Terminal Examination		
First Terminal Examination, September 2023			
October	<p>Chapter No. 14 Chemical Effects of Electric Current</p> <p>Chapter No. 13 Sound</p>	<p>i. Students will be able to explain that acids, bases and salt solutions are generally good conductors of electricity. ii. They understand that the passage of electricity through a conducting liquid causes chemical effects.</p> <p>i. Students will understand that sound is created by a vibrating body and it requires a medium for propagation. ii. Students will learn about the concepts such as amplitude, frequency, time period etc.</p>	<p>Visit the website https://www.alliantenergykids.com/energybasics/all about electricity To find out any five fun facts about electricity.</p> <p>School's band students will play their respective instrument.</p>



		<p>iii. Students will be able to differentiate between audible and inaudible sounds, as well as noise and music.</p> <p>iv. They will know the causes and effects of noise pollution and the measures to limit it.</p>	
November	Chapter No.9 Reproduction in Animals	<p>Students will be able to differentiate between sexual and asexual reproduction.</p> <p>ii. They will learn about male and female reproductive organs and development of embryo.</p> <p>i. Students will be able to understand the differences between viviparous and oviparous animals.</p>	<p>i. Students will observe the permanent slides of Budding in Hydra and binary fission in Amoeba.</p>
December	Chapter No.10 Reaching the age of adolescence	<p>Students will be able to understand the changes at puberty.</p> <p>They will learn about the role of hormones in initiating reproductive function.</p> <p>They will also understand the importance of reproductive health.</p>	<p>Students will make a chart to show the position of various endocrine glands, hormones secreted by them & their functions.</p>

Second Unit Test, December 2023

January	Chapter No.15 Some Natural Phenomena	<p>i. Students understand that charging can be done by friction, conduction and induction.</p> <p>i. Students learn about the types of charges and transfer of charge.</p> <p>ii. They learn about lightning safety, earthquakes – its causes, seismic zones and protection against earthquakes.</p>	<p>Students will make a model of Aluminium strip Electroscope.</p>
February	Chapter No. 16 Light	<p>i. Students will understand the laws of reflection, types of reflection and the formation of multiple images.</p> <p>ii. Students will learn the structure of the human eye and how to care for our eyes.</p> <p>iii. Students will gain knowledge about the Braille System for visually challenged people.</p>	<p><i>Lab Activity - Students will study the Laws of Reflection.</i></p> <p><i>Students will study the Multiple Reflection.</i></p>



March

Revision for Second Terminal Examination

Second Terminal Examination, March 2024

