



SANT NANDLAL SMRITI VIDYA MANDIR, GHATSILA
SESSION 2026-27
YEARLY SYLLABUS - BIOLOGY
STD VIII



MONT H	WD	No of classes	TOPICS TO BE TAUGHT	ACTIVITIES	LEARNING OUTCOMES	VALUES
APRIL	20	9	Ch-1 Exploring the world of science Basic concepts of Matter , atoms , molecules, compound, mixture, solution, components of solution. Revision Exercise periodic test 1	To make solution with solute and solvent. Make a mixture with sand and iron fillings	To be able to understand the exploring the world of science . To be able to understand the matter ,atoms molecules properties of particles of solid liquid and gas .	Develops curiosity and scientific attitude. Builds awareness about safe handling of chemicals.
MAY	7	2	Ch_7 particulate Nature of matter *Definition of matter *Matter composed of, *how matter is structured, * characteristics of particle of matter,	To show space between the particles in matter	Students will understand about the different State of matter, Particulate nature of matter, They will have idea about characteristics of particles of matter	Team work, unity
JUNE	10	4	Summer vacations Ch – 7 to be continued... * different states of matter, *difference between solid liquid and gas depends on various key thing * How does the inter particle spacing differ in the three States of matter,	To know a great scientist Sir C.V.Raman.make a poster.	To be able to understand about the different states of matter ,	Perseverance and determination.
JULY	23	11	* How particles move in different state of matter *Movement of particles in solid, liquid and gases Revision Exercise PT 2		students will be able to: 1. *Describe* the arrangement and movement of particles in solids, liquids, and gases. 2. *Explain* the differences in particle movement in different states of matter.	Curiosity , Scientific temper



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					3. *Identify* examples of solids, liquids, and gases and describe the movement of particles in each state. 4. *Apply* their understanding of particle movement to real-life situation.	
AUGUST	19	7	Ch – 8 NATURE OF MATTER *Mixture How mixture is formed Characteristics of mixture *Types of mixture	Separation of mixture of iron and sand with the help of magnet	Students will understand that mixture can be separated physically by simple processes	Promotes scientific classification skills.
SEPT	20	4	Revision Half yearly examination	_____	_____	_____
OCT	14	6	Ch – 8. continue ... Air is a mixture composition of air , why air is called a mixture ,importance of air as a mixture, pure substance, characteristics of pure substance type of pure substance element an compound	Make a solution of homogenous and heterogeneous mixture. Make a concept map of the chapter	Students will be able to understand the concept of mixture .	Curiosity, awareness
NOV	17	8	Ch – 8. continue... Classification of elements, Compound, everyday examples, Uses - elements, mixtures, compound , Minerals . Exercise Revision + PT 3	Hydrogen pop test , Oxygen glowing splinted test.	Students will be assessed on their ability to identify metals and non-metals. - Students will be assessed on their ability to explain the differences between metals and non-metals. - Students will be assessed on their ability to classify elements as metals, non-metals, or metalloids.	*Interest in Science*: Students will develop an interest in science and its applications. 2. *Open-mindedness*: Students will be open to new ideas and perspectives, and will be willing to change their understanding based on new information. 3. *Respect for Evidence*: Students will respect evidence and data, and will use it to support their claims.
DEC	17	7	Ch – 9. Solute, solvent and solution Solution, components, solubility, concentration of solution, solubility of gases, factors affecting gas solubility..	The hot and cold water challenge to show solubility .	To be able to understand the concept of solubility factors affecting it.	Encourages analytical thinking. Develops accuracy and precision.



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			Winter vacations			
JAN	18	7	<p>Ch – 9. Solute, solvent and solution continued....</p> <p>Density, mass, volume, units of density, conversion of unit, measuring mass, measuring volume, effect of temperature and pressure on density, relative density, calculation of relative density.</p> <p>A great scientist – Asima Chatterjee.</p> <p>Exercises</p> <p>Revision</p>	<p>*Calculating density using a small wooden block with a regular shape (like a cube or a cuboid) and a small balance.</p> <p>*Build a density tower (The rainbow in a glass)</p>	<p>Define* density, mass, and volume, and explain their relationship ($\rho = m/V$). *Identify* units of density (g/cm^3, kg/m^3) and *convert* between them.</p> <p>*Measure* mass using a balance and volume using a measuring cylinder.</p> <p>*Explain* how temperature and pressure affect density with examples.</p> <p>*Define* relative density and *calculate* it for different substances.</p> <p>*Apply* density concepts to real-life situations (e.g., floating, sinking).</p>	<p>Curiosity*: Encouraging students to explore and understand the concept of density.</p> <p>2. *Accuracy*: Emphasizing the importance of precise measurements in scientific experiments.</p> <p>3. *Critical Thinking*: Applying density concepts to real-life situations and solving problems.</p> <p>4. *Collaboration*: Working together to measure and calculate density of different substances.</p> <p>5. *Respect for Science*: Appreciating the role of density in understanding the natural world.</p>
FEB	20	4	<p>Revision</p> <p>Annual examination</p>	_____	_____	_____

Subject Teacher: Indu Kumari

Principal