Alternate Academic Calender 2021-22

Class: 9th std Month: August 2021 Subject: Science

Chapters : 1) Matter in Our Surroundings .
2) Is Matter Around Us Pure?
3) Motion.

***Chapters: 1*) Matter in Our Surroundings**				
Sl. No	**Month /Week**	**Important Learning competencies**	**Learning activities**	**Evaluation**
1	August First week	*The meaning of matter, Physical Format and Will describe the properties of the particles of matter. *Classifying the different states of poetry * Will give the reasons for change in the states of matter.	*List the properties of particles of matter *Maintaining the Textbook activity number 1.1, 1.2, 1.3, 1.4. *Students will List the things that know and classify them as solid, liquid and gas. Maintaining the Textbook activity number 1.9. 1.10, 1.11. * Implementation of Temperature Change Effect Activity1.12 from the Textbook *Prepare a chart (Map) of status change. *Observe the Boiling of water, make a list of changes	* List the properties of matter from Text Book page no.1 * Classify the given Substances into solid, liquid, gases Stone, Pen, Water, incense stick Smoke, Milk * Completing Text Book Page 02 and03. * Explain the change of state of the particles of matter with a suitable example. * Completing Text Book Page number 07,08.

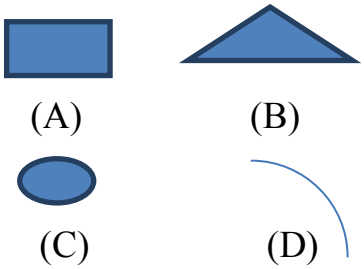
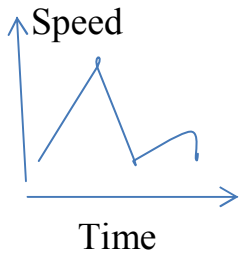
		* Describes evaporation and vaporization	*Observe the water in the refrigerator is frozen. *Observe the ice / ice cream Melting in the sun. *Knowing the reason for draining the lake water in the summer. *Transpiration in Plants (List the changes when the leaves are covered in a plastic). Knowing The reason for the evaporation of water spilled on the roof and grounds of the house during the very hot summer.	*What is vaporization? Give example. *What is evaporation? Give example.
Chapter: 2. Is Matter Around Us Pure?				
2	* August Second week	*Meaning of mixture, types, They will learn about homogeneous and heterogeneous mixtures. * Knowing the	* Implementing the Textbook activity No. 2.1, by using copper sulphate, water, beaker, potassium permanganate, salt and sugar. * Implementing Textbook Activity Number 2.2 using water, milk, wheat flour and	** What is mixture? * Classify the following mixtures into homogeneous and heterogeneous mixtures. Sugar, water, salt water, potassium permanganate, wheat flour, lime powder, milk. What is the solution?

		meaning, components and properties of the solution. Calculating the solubility of the solution.	lime powder * Carrying out Textbook Activity No. 2.3 using sugar, water and salt	* List the components of the solution. * List the properties of the solution * Carrying out page numbers 7 and 8 from text book.
	* August Third week	* Knowing the meaning and nature of Suspension and Colloidal solutions, Knowing the Tyndall Effect.	* Tyndall effect activity using water, milk, sugar solution, salt solution, transparent glass container, battery, etc. ** implementing the the text book activity 2.5, by Using Milk, Churning stick. * Implementing Textbook Activity No. 2.7, using soap / Chalk. Preparation of the table Colloids-2.1.	* What is suspension? What are its features. * What is Colloidal solution? What are its features. identify the Dispersed Phase and dispersing medium in ice, milk, butter.
		* Methods of separation of solution components. Knowing the applications of chromatography. * Knowing the	* Listening to some of the Methods of separation in our routines we use daily. For example, selecting certain items by hand, sieving, filtration, etc. * Separating the cream from the milk. * Removal of butter by	* State the methods of Separating the following solution components. 1) Ammonium chloride and salt desorption. 2) Separation of butter from Curd.

		difference between physical and chemical changes. * You will understand the elements, Nonmetals and Metalloids. Distinguishing between compounds and mixtures.	Churning of the curd. * Knowing the use of a washing machine. * Implementing the chromatography activity-textbook number-2.7. * Viewing the available metals, listing physical changes. * Carrying out textbook activity number 2.10 using iron fillings, sulphur powder, magnet. * Viewing Table 2.2 in the textbook	3) Method of Separation of Oil and water. What is Chromatography? Tell us about its application. ** Differentiate between physical and chemical changes. Complete the Text Book page number. * What are elements, metal, Nonmetals and Metalloids? *Differentiate between compounds and Mixtures.

Chapter: Motion.

4	August Fourth week	* Will give definition and examples of motion. * They will explain how the motion is relative. * Differentiate uniform and non-uniform motion. * Differentiate speed, distance travelled, and position. * Differentiate speed, Velocity and acceleration.	** Draw line with scale and pencil, comparing the position of the endpoints of the line to the stopwatch time. * Giving an example of two moving trains, a tree, and a moving bus, sunrise and sunset etc. * Performing an Activity 8.5. * Interpreting with the help of different line drawings. ** by giving example of Slit the PVC pipe to length, join the pipe in the right triangle shape, to that Roll the marble to it, by using a stopwatch, determine the speed and velocity. Activity no.8.1,8.2 from text book. Showing How does the marble gain momentum by sliding the slit pipe down the slope? * Interpreting 8.41 and 8.42 Maps of the textbook. * Characterizing the	** Give two examples of uniform and non-uniform motion Complete the 5th Home page, On page 45 of the Text Book Part-I. * How the applications for displacement have been implemented in the urban traffic system? ** How to accelerate a moving bicycle? Justify your answer, when Rama is running downhill, is his acceleration negative or positive? why time is important when comparing any motion magnitudes with graphs.

		* Analyses distance-time, speed-time graphs. * Will characterize the equations of motion. * solves problems related to motion. * will define the Circular motion and give an example.	equations of motion by a graph method. Learning how to change from km / h to m / sec. Solve the problems of textbook page numbers 122 and 123. ** Identify the Circular motion in the path given below.  (A) (B) (C) (D) * List five examples of Circular Motion ?.	 *What does the Graph indicate? * What is the rate of acceleration if time is doubled in this equation? * Why Circular Motion accelerated? * artificial satellites do Revolve in which type of Orbit?.