April 4 April 4 Matter Is math	Teacher:- Parvathy Anish Unit/Section atter in our surroundings matter around us Pure	No of Periods	To define matter and to compare the properties of the three different states of matter To compare latent heat of fusion and latent heat of To define eveporation and the factors affecting the rate of states of the states of matter and to compare the properties of the three different states of matter	and gas	SCIENCE Grade:- 9 Activities (Formative assessment tasks, projects, Visits) INCLUDING VIRTUAL LEARNING To observe the process of sublimation	Teaching Aids / Reference/ Resources ammonium chloride.salt ,beaker,burner,cotton	Competencies and Values	MY IDENTITY	Cross curricular link	Art Integration •Visual arts/Culinary arts Clay Modelling showing the arrangement of particles in the three different states of matter.	Artificial Intelligence	Pb, As, Al, Ni	Critical Thinking Questions-Objective(ASSET BASED) (a) It has weak forces of attraction (b) It has comparativel more force of attraction than other gases (c) It has more intermolecular space (d) It is present in atmosphere.
April 4 April 4 Matter Is math	Unit/Section atter in our surroundings	No of Periods	To define matter and to compare the properties of the three different states of matter To compare latent heat of fusion and latent heat of To define everporation and the factors affecting the rate of	Learning Outcomes/ Skills acquired To list the properties of solid ,liquid and gas To compare latent heat of fusion anf	Grade:- 9 Activities (Formative assessment tasks, projects, Visits) INCLUDING VIRTUAL LEARNING	Teaching Aids / Reference/ Resources	Competencies and	MY	curricular	• <u>Visual arts/Culinary arts</u> Clay Modelling showing the arrangement of particles in the three different states of	Artificial Intelligence	Which of the following is heaviest metal? Pb, As, Al, Ni	(a) It has weak forces of attraction (b) It has comparativel more force of attraction than other gases (c) It has more intermolecular space (d) It is present in atmosphere.
April 4 April 4 Matter Is math	Unit/Section atter in our surroundings	No of Periods	To define matter and to compare the properties of the three different states of matter To compare latent heat of fusion and latent heat of To define everporation and the factors affecting the rate of	To list the properties of solid ,liquid and gas To compare latent heat of fusion anf	Activities (Formative assessment tasks, projects, Visits) INCLUDING VIRTUAL LEARNING	Reference/ Resources ammonium chloride, salt			curricular	• <u>Visual arts/Culinary arts</u> Clay Modelling showing the arrangement of particles in the three different states of	Artificial Intelligence	Which of the following is heaviest metal? Pb, As, Al, Ni	(a) It has weak forces of attraction (b) It has comparative more force of attraction than other gases (c) It has more intermolecular space (d) It is present in atmosphere.
April 4 Matter Is mate	atter in our surroundings	. No of Periods	To define matter and to compare the properties of the three different states of matter To compare latent heat of fusion and latent heat of To define everporation and the factors affecting the rate of	To list the properties of solid ,liquid and gas To compare latent heat of fusion anf	projects, Visits) INCLUDING VIRTUAL LEARNING	Reference/ Resources ammonium chloride, salt			curricular	• <u>Visual arts/Culinary arts</u> Clay Modelling showing the arrangement of particles in the three different states of	Artificial Intelligence	Which of the following is heaviest metal? Pb, As, Al, Ni	(a) It has weak forces of attraction (b) It has comparative more force of attraction than other gases (c) It has more intermolecular space (d) It is present in atmosphere.
Matter Is mate Is mate June 4 July August	ū.	8	To compare latent heat of fusion and latent heat of To define eveporation and the factors affecting the rate of assessments. To review the concepts based on matter in our surroundings.	and gas To compare latent heat of fusion anf	To observe the process of sublimation		·			Clay Modelling showing the arrangement of particles in the three different states of		Pb, As, Al, Ni	more force of attraction than other gases (c) It has more intermolecular space (d) It is present in atmosphere.
May June 4 July August	ū.	8	To define eveporation and the factors affecting the rate of the supposed for the concepts based on matter in our surroundings.				.Honesty		Biology			3. Which property of cotton makes it suitable for use as clothing in summer? 4. Name the synthetic fibre which resembles wool in its properties. 5. Which material is used for making CDs? 6. Why is rayon called artificial silk? 7. What is used for coating non-stick kitchen wares? 8. Which gas is used as referigerant in fridge and in air conditioner?	2. Which of the following has heighest kinetic energy? (a) Particles of ice at 0 °C(b) Particles of water at 0 °C Particles of water at 100 °C(d) Particles of steam at 100 °C 3. Bose-Einstein Condensate have (a) Very low kinetic energy(b) Low kinetic energy (c) High kinetic energy(d) Highest kinetic energy. 4. Which of the following is most suitable for summer? (a) Cotton(b) Nylon(c) Polyester(d) Silk. 5. Which of the following is incorrect about plasma? (a) Fluorescent tube and neon sign bulbs consist of plasma. (b) The gas gets ionised when electrical energy flows through it. (c) It consists of super-energetic and super-excited particles. The plasma glows with colour which does not depend upon nature
May 4 June 4 July August	matter around us Pure	8	To review the concepts based on matter in our surroundings.	To list the factors affecting the rate	To conert the given temperature to kelvin scale and		Tionesty	Culture	Biology		Leaning Mat	5. Why do gold, shver and plaunum occur in nee state:	The plasma glows with colour which does not depend upon nature
May 4 June 4 July August	matter around us Pure	-		OF Attenderation				Community	viornmrntal Scien	nce	https://games.legendsoflearning.com/games/WyJnYW1lcyIsN https://games.legendsoflearning.com/games/WyJnYW1lcyIsN	ijYzMV0=	
May 4 June 4 July August	matter around us Pure				May 18 th - May 27 th UNIT TEST 1 Examinati	ions							
1 11-8			To compare a pure substance and a mixture To compare the properties of suspension and a colloid To compare the different types of separation techniques used.	and a pure substance	To separate two immisicible liquids	oil,water ,separating funnel,stand	.Respect		Art	Three dimensional art PPT		What is meant by solubility of a solute? How to differentiate between sol, solution and suspension? What is meant by chromatography? Define emulsion with example. Under the solution with example.	1. Air snows the property of (a) N2(b) O2 (c) Both (a) and (b)(d) None of these. 2. The components of water can be separated by (a) Physical methods(b) Chemical methods (c) Both(d) They can be to separated 3. Mixture can be (a) homogeneous(b) heterogeneous (c) Both (a) and (b)(pure substance 4. Brass is a (a) Compound(b) Element (c) Homogeneous mixture(d) Heterogeneous mixture 5. In sugar solution, (a) Sugar is solute, water is solvent(b) Sugar is solvent, wate solute (c) Both are solutes(d) Both are solvents. 6. Brass is a solution of molten copper in (a) solid zinc(b) molten zinc (c) gaseous zinc(d) molten 7. 24 carat of diamond is equal to (a) 200 mg(b) 200 g (c) 95% mg(d) 91% gold
1 11-8		8	To compare methods of puridication ofwater and air from their	To explain the different separation	To separate dyne and water from the ink	ink,watch glass,burner,bea		Culture		to show the different separtion techniques.	Mine craft		
1 11-8			To compare the difference between elements ,compound and m	olecules.				Community			https://games.legendsoflearning.com/games/WyJnYW1lcyIsN .	-	
1 11-8					June 15h -June 24th PA- 1								
Atoms					SUMMER VACATI	ION							
	oms and molecules		To compare the law of conservation of mass and law of To explain and illustrate the structure of an atom .	To define an atom, element, compound 5To explain the structure of an atom	To illustrate the symbols created by John Dalton	Chart,colous		Culture		Three dimensional art Structure	.https://games.legendsoflearning.com/games/WyJnYW1lcyIsN	Define polyatomic ion. Give one example. What is formula unit of mass? How is it different from molecular mass? What is Law of conservation of mass and Law of constant proportions? What is an ion? Explain the types of ion with examples. Find the molecular mass of H2O. Define the term valency. What is the valency for magnesium and copper? What is the difference between cation and anion? What is atmicity? What is the atomicity of phosphorus and nitrogen? Find the number of atoms in 0.5 mole of C atom. Io. Find the mass of 1.5 mole of CO2 molecule. Calculate the formula unit mass of NaCl and CaCl2. What is the difference between molecules 2O and O2?	8. The molecular mass of x is 106. x can be 1. CaCo3 II. So3 III. Na2Co3 IV. NaCl 9. Which among the following is not a postulate of Dalton♠s aton theory? 1. Atoms can not be created or destroyed II. Atoms of different elements have different sizes, masses and chemical
		8	To define a chemical formula and to explain the steps involved	To list the steps involved in deducing				Community	Math		https://games.legendsoflearning.com/games/WyJnYW1lcyIsN https://games.legendsoflearning.com/games/WyJnYW1lcyIsO		properties III. Atoms of same elements can combine in only one
			To deduce the molecular mass and molar mass of the given		To calculate the molecular mass and molar mass.	Task Sheet	.Honesty				111111111111111111111111111111111111111	-	
4		8	To compare the three different structure of atoms	Learning about atoms, molecules and elements and compounds	September 14 th-26 th Half Yearly Examinations To illustrate rutherford,bohr and plum pudding model to show the structure of atom.						Mine craft	An atom has atomic number 12, what is its valency and name the element? Name two elements with same number of protons	I. Protons and electrons II. Neutrons and electrons III. Protons and neutrons IV. None of these
October												Draw the atomic structure of (i) an atom with same number of sub-atomic particles, (ii) an atom with same number of electrons in L and M shell. What is an octate? Why would atoms want to complete their octate? Find the valency of	The isotope deuterium of hydrogen has I. No neutrons and one proton III. One neutrons and troptons III. One neutrons and troptons III. One electron and two neutron The electrons present in the outermost shell are called I. Valency electrons II. Octate electrons III. Dupelectrons IV. Valence electrons 4. An alpha particle contains 1. 4 positive charge and 2 mass unit III. 2 positive charge and 4 mass unit
4	cucture of the atom							Community			https://games.legendsoflearning.com/games/WvInYW11gvIcV	atoms which have same number of nucleons in it? 9. Give the difference between three sub-atomic	positive charge and 4 mass unit
	ructure of the atom		To compare the advantages and disadvantages of these models To compare atomic number and mass number with suitable					Community		Modelling Making-Plum pudding Model	https://games.legendsoflearning.com/games/WyJnYW1lcyIsM https://games.legendsoflearning.com/games/WyJnYW1lcyIsM	atoms which have same number of nucleons in it? 9. Give the difference between three sub-atomic	

November		8			October 31st - 9th November - ut:2			
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January	Revision		To review the concepts based on matter in our surroundings					
Januar y	Revision	8	To review the concepts based on the structure od atom					
	Revision		To review the concepts based on atoms and molecules.					
			•		January 16th -25 th PA:2			
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