

LESSON PLAN

CLASS: 09 SUBJECT: PS Name of the Teacher: M.Srinivasa Rao

Name of the School: SPSMH School, Gudivada

Name of the	Торіс	No.of Periods	Timeline f	or teaching	Any specific
Lesson/Unit		Required	From	То	information
	Introduction, What is a mixture? And Types of mixtures	1			
	What is a Solution?	1			
	BYJU's Content Review	1			
	Concentration of a solution	3			
15 MAIIER	What is a Suspension? and What is a Colloidal Solution?	3			
AKUUND US DUDE9	Physical and Chemical Changes	1			
PUKE:	BYJU's Content Review	1			
(Chapter-2)	What are the Types of Pure Substances? and Elements	2			
	Compounds	1			
	Mixtures and Compounds	1			
	BYJU's Content Review	1			

Prior Concept/Skills:

- 1. Name the method by which you can separate butter from milk.
- 2. Which method of separation is used for husk from wheat flour?
- 3. What is air called, if it is a combination of some gases?

Learning Outcomes:	No. of Periods
1. Classification of matter based on their states (solid/liquid/gas).	1
2. Draws conclusion of matter is made up of particles.	1
3. Seek answers to queries on their own "Is the mixture heterogeneous?"	1
4. Differentiates element, compound and mixture on their properties.	2
5. Calculates using the data given of concentration of solution in terms of mass by mass percentage of substances.	1
6. Communicates the findings and conclusions effectively of concentration of mixtures.	2
7. Relates processes and phenomena with causes of various processes of separation with the physical and chemical	
properties of the substances.	1
8. Draws labelled diagrams of process of filtration.	1
9. Analyses and interprets graphs and figures of properties of components of a mixture to identify the appropriate method of	
Separation.	1
10. Applies scientific concepts in daily life and solving problems of separation of mixtures.	1
11. Differentiates Solutions, Suspension and Colloid based on their properties.	2

12. Draws flow chart of the matter	1
13. Classifies composition (element/compound/ mixture) based on their properties.	1



items in our dairy inc			
2. Discussion and explain the concept of mixture.	2. Group discussion on the properties of the mixture and pure substance	2. What is a mixture?	2. Is the mixture heterogeneous? Give
3. Explain types of mixtures with	3. Students collect the information of	3. Students give examples of	reason. 3. What constituents are

Examples and conduct activities.	homogeneous and heterogeneous	homogeneous and heterogeneous	in milk?
4 Review of Byiu's tab content	Mixtures 4 Viewing the content in Byiu's Tab	mixtures. 4 Viewing the content in Byiu's	
4. Review of Byju's tab content	+. Viewing the content in Dyju's rab	Tab	
5. Discussion and explain the concept	5. "All the solutions are mixtures, but	5. Students complete the homework	4. Define solution,
of solutions and their properties.	not all mixtures are solutions"- Discuss		solvent and solute.
6. Conduct an activity on the	6. Students prepare the saturated and	6. Identify the main difference	5. When do you say that
concentration of a solution.	unsaturated solutions.	between saturated and unsaturated solutions.	a solution is dilute solution?
7. Solving the problems on	7. Solved the problems on mass	7. Students express the properties	
concentration of a solution.	percentage of a solution.	of a solution	6. A solution contains 40 g of common salt
8. Explain Suspension and properties of a Suspension with examples	8. Collect information of suspension	8. What is Tyndall effect?	in 320 g of water.
a Suspension with examples.			concentration in terms
9. Explain Colloid and properties of	9. Students give examples of Tyndall	9. Students give common examples	of mass by mass
a Colloid with examples.	effect in our daily life.	of colloids	percentage
10 Discussion on Physical and	10 Group discussion on Physical	10. Students complete the	of the solution? 7 Does starch show
Chemical changes	properties of matter	homework	Tyndall effect?
11. Review of Byju's tab content	11. Viewing the content in Byju's Tab	11. Viewing the content in Byju's Tab	
12. Explain types of Pure Substance	12. Students give examples of metals	12. Students express the properties	8. What is the main
(Elements)	and non-metals	of metals and non-metal	principle of sublimation?
13. Explain and conduct activity on	13. Students involved in group activity	13. Students complete the	9. Why is water
Pure Substance (Compounds)		homework.	considered as
14 Explain the difference between	14 Collect information on elements		compound?
mixtures and compounds	and compounds		mixture?
15 Euclain the flows that of worth		14 Draw the flow short of worth	
15. Explain the flow chart of matter		14. Draw the flow chart of matter	elements known to
16. Review of Byju's tab content	15. Viewing the content in Byju's Tab	15. Viewing the content in Byju's	us.
		Tab	

Check For Understanding Ouestions	TLM's	
1. Factual:	(Digital + Print)	
1. Is blood a heterogeneous mixture?		
2. What does suspension and colloid have in common?	1. Used prepared	
3. Why is it not possible to distinguish particles of a solute from the solvent in solution?	Ouiz paper.	
	2. Utilized digital	
2. Open Ended/Critical Thinking:	classroom.	
1. Colloids are heterogeneous mixtures. Why?	3. Provide video	
2 Is a substance always homogeneous?	links	
3. Which is the more stable suspension or colloid? why	OR codes	
2. Which is the more suspension of conord. Why	DIKSHA App	
3. Student Practice Questions & Activities:	4. YouTube video	
1 Classify each of the following as a homogeneous or heterogeneous mixture	links	
Soda water Wood Air Soil Vinegar Filtered tea	5 Byiu's Tab	
2. Which separation techniques will you apply for the separation of the following?	6. IFP	
(a) Sodium chloride from its solution in water (b) Tea leaves from tea (c) Iron pins from sand		
3 How would you confirm that a colourless liquid given to you is pure water?		
4 Write the steps you would use for making tea. Use the words solution solvent solute dissolve soluble insoluble		
filtrate and residue		
Assessment:		
1. Give some daily life experiences where you can observe the "Tyndall effect".		
2. Compare the properties of mixtures and compounds.		
3. Explain the following giving examples		
(a) Saturated solution (b) Pure substance (c) Colloid (d) Suspension		
4 Classify the following into elements, compounds and mixtures		
(a) Sodium (b) Soil (c) Sugar solution (d) Silver (e) Calcium carbonate (f) Coal (g) Air (h) Soan (i) Methane (i) Blood		
(a) solution (b) solution (a) shifter (b) current current (a) solution (a) shifter (b) current (a) solution (b) could c	() Diood	

SIGNATURE OF THE TEACHER

SIGNATURE OF THE HEADMASTER

VISITING OFFICER WITH REMARKS