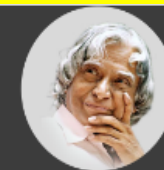




Srini Science Mind
Abdul Kalam Physical Science Group



NEW

9th class

PHYSICAL SCIENCE

LESSON PLAN with BYJU's Content



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MODEL LESSON PLAN

CLASS: 09

SUBJECT: PS

Name of the Teacher: M.Srinivasa Rao

Name of the School: SPSMH School, Gudivada

Name of the Lesson/Unit	Topic	No.of Periods Required	Timeline for teaching		Any specific information
			From	To	
Matter In Our Surroundings (Chapter – 1)	Physical Nature of Matter	3			
	Characteristics of Particles of Matter	3			
	States of Matter	3			
	Can Matter Change its State?	4			
	Evaporation	3			

Prior Concept/Skills:

1. Give examples of matter in our surroundings?
2. What is the “Panch Tatva”?
3. In how many states does matter exist?
4. What is the hidden phenomena in drying wet clothes in outside?

Learning Outcomes:

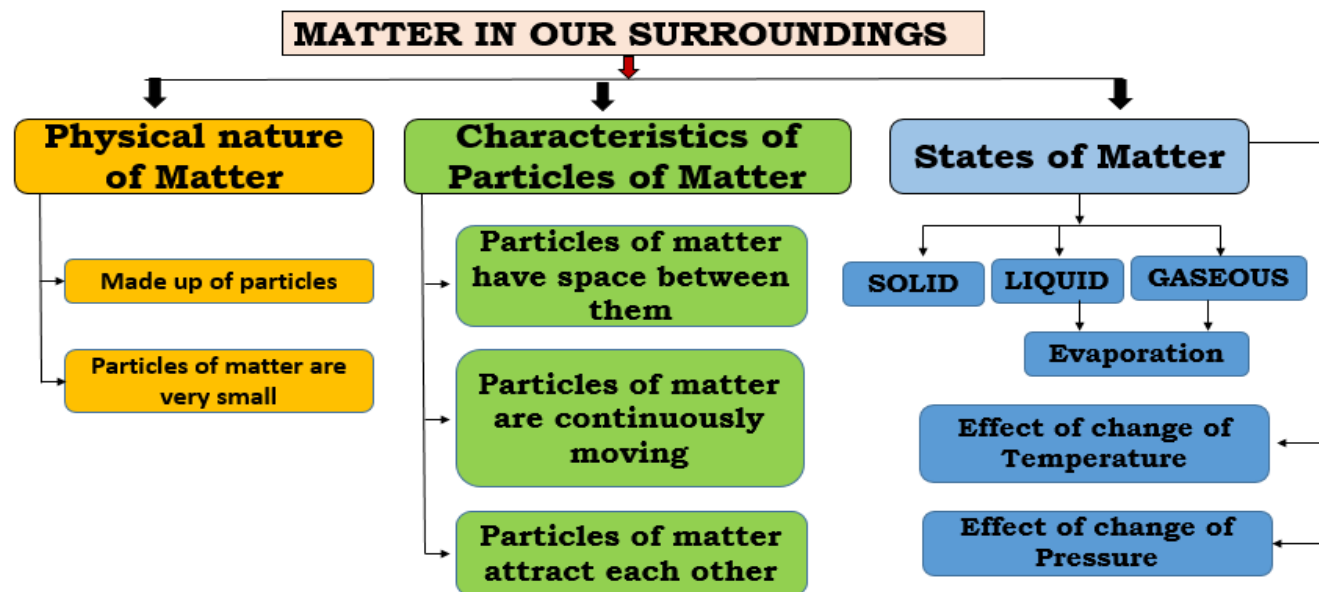
1. Classification of matter based on their states (solid/ liquid/gas).
2. Communicates the findings and conclusions effectively of “Can matter change its state?”
3. Analyses and interprets figures of the properties of three state of matter.
4. Conduct a simple investigation to seek answers to queries about “What is the effect of temperature on state of substances?”
5. Conduct a simple investigation to seek answers to queries about “What is the effect of compression on different states of substances?”
6. Draws the conclusion of matter is made up of particles.
7. Draws a flow chart of the interconversion of the three states of matter.
8. Draws labeled diagrams of process sublimation.
9. Calculates using the data given such as conversion of Celsius scale to Kelvin scale and vice versa.
10. Relates processes and phenomena with causes/effects such as process of evaporation with cooling effect.
11. Applies scientific concepts in daily life and solving problems of evaporation.
12. Relates processes and phenomena with causes and effects of evaporation is the cooling process.
13. Seek answers to queries on their own “Why should we wear cotton clothes in summer?”

No. of Periods

- 2
- 2
- 1
- 1
- 1
- 1
- 1
- 1
- 2
- 1
- 1
- 1
- 1

TEACHING LEARNING PROCESS

Induction/Introduction:



Experience and Reflection:

1. Students are able to understand the interconversion of the three states of matter and applies in various situations.
2. Students will identify where the effect of a change in temperature and the effect of a change in pressure of matter.
3. Students are able to understand the applications of evaporation in our daily life and utilized it.

Explicit Teaching/Teacher Modelling (I Do)	Group Work (We Do)	Independent Work (You Do)	Notes for:
<ol style="list-style-type: none"> 1. Discussion and conduct experiment on salt dissolve in water. 2. Explain and conduct activity on the particles of matter are very small (Potassium permanganate crystals, beakers, water) 3. Discussion and conduct an activity on particles of matter have space between them (Sugar/ Salt/ Dettol/ Potassium permanganate crystals, beakers, water, Spoon) 	<ol style="list-style-type: none"> 1. Students conduct this activity. 2. The same activity can be done using Sugar/ Dettol instead of Potassium permanganate crystals 3. Students conduct activities and making questions. 	<ol style="list-style-type: none"> 1. Viewing the content in Byju's Tab 2. Students observe the dissolve process and record the timely. 3. Students complete the homework. 	<ol style="list-style-type: none"> 1. Write the physical nature of matter? 2. What is the smallest part of matter called? <p style="text-align: center;">“There is enough space between particles of matter.”</p>

<p>4. Explain and conduct lab activity on Particles of matter are continuously moving.</p> <p>5. Discussion and conduct lab activity on particles of matter attract each other.</p> <p>6. Explain the states of matter.</p> <p>7. Discussion and conduct activity on “Properties of solids?”</p> <p>8. Discussion and conduct activity on “Properties of liquids?”</p> <p>9. Discussion and conduct activity on “Properties of gases?”</p> <p>10. Explain and show the magnified schematic pictures of the three states of matter.</p> <p>11. Explain and conduct activity on effect of change of temperature.</p> <p>12. Explain, melting point of solids. conversion of temperature (Kelvin scale to Celsius scale vice versa)</p> <p>13. Discussion and conduct an activity On effect of change of pressure.</p> <p>14. Discussion and explain evaporation</p> <p>15. Conduct activity on factors affecting evaporation</p>	<p>4. Students describe the process of Particles of matter are continuously moving.</p> <p>5. Group discussion on characteristics of particles of matter.</p> <p>6. Students collect information on the states of matter.</p> <p>7. Students give examples of solids</p> <p>8. “Does the shape of the liquid remain the same? – Group discussion</p> <p>9. Students conduct activity on the properties of gases</p> <p>10. Students arrange the experimental setup of given apparatus and conduct activity</p> <p>11. Students have done the problems on the conversion of temperature.</p> <p>12. Students collect information on the effect of change of pressure on matter.</p> <p>13. Students describe the evaporation process.</p>	<p>4. Viewing the content in Byju’s Tab</p> <p>5. Students involve in group activity</p> <p>6. Students draw the flow chart of the states of matter</p> <p>7. Viewing the content in Byju’s Tab</p> <p>8. Students complete the homework.</p> <p>9. Students conduct activities.</p> <p>10. Students draw the schematic pictures of the three states of matter.</p> <p>11. Viewing the content in Byju’s Tab</p> <p>12. Students draw the sublimation of ammonium chloride</p> <p>13. Students complete the homework.</p> <p>14. Students write the definition of evaporation.</p> <p>15. Viewing the content in Byju’s Tab</p>	<p>4. Define Diffusion?</p> <p>5. What are the characteristics of particles of matter.</p> <p>6. Which property of the gas is utilized when natural gas is supplied for vehicles?</p> <p>7. Differentiate between properties of three states of matter.</p> <p>8. List two properties that liquids have in common with gases?</p> <p>9. Define boiling point?</p> <p>10. What is the effect of pressure on a gas?</p> <p>11. Define evaporation?</p>
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