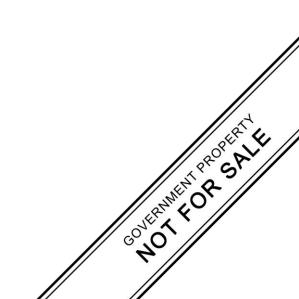




# Lesson Exemplar for Science





**Quarter 1** 

Week

#### Learning Activity Sheet for Science Grade 7 Quarter 1: Week 2

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Development Team			
Writers:	Magno R. Abueme and Nerissa A. Mesa		
Content Editor:	Priscila D. Cabigting		
Mechanical Editor:	Waylie Nina D. De Claro		
Illustrator:	John Albert A. Rico, Jeffrey L. Sanggalang		
Layout Artists:	Joe Angelo L. Basco		
	Elaine Margarett U. Baguio		

## Management Team

Alberto T. Escobarte, Viernalyn M. Nama, Dianne Catherine Teves-Antonio, Louie Oller V. Erni, Nenette Joy P. Larinay, Lhovie C. Damian, Redgynn A. Bernales

Development Team				
Enhanced by: Content Validators:	Merie Gerlie V. Capiral and Gemma Caviles			
Internal:	Corazon A. Javier, Jocelyn R. Agulto, Armida Oblinada, Maripaz Mendoza,			
External:	Roxanne S. Villanueva, Rowena C. Lamera Ryan Lansangan, Louie Dasas			
Language Validator	Donald H. Samson			
Illustrator: Layout Artist:	Aileen G. Gutierrez Danica Joy B. Delorino			
	Management Team			
JOCELYN DR ANDAYA CESO IV, Director IV CRISTITO A. ECO CESO III, Assistant Regional Director MICAH G. PACHECO, OIC-Chief Education Program Supervisor, CLMD DENNIS M. MENDOZA, Regional EPS/ LRMS Head MYRON WILLIE III B. ROQUE, SDO Valenzuela LRMS Education Program Supervisor				

MATATAG	School	Grade Level	7
K to 10 Curriculum	Name of Teacher	Learning Area	Science
Weekly Lesson Log	Teaching Dates and Time	Quarter	1 Week 2

		DAY 1	DAY 2	DAY 3	DAY 4
I. CU	. CURRICULUM CONTENT, STANDARDS, AND LESSON COMPETENCIES				
А.	Content Standards	The learners shall learn that there are specific processes for planning, conducting, and recording scientific investigations.			
B.	Performance Standards	By the end of the quarter, the learners shall recognize that scientists use models to describe the particle model of matter. They use diagrams and illustrations to explain the motion and arrangement of particles during changes of state. They demonstrate an understanding of the role of solute and solvent in solutions and the factors that affect solubility. They demonstrate skills to plan and conduct a scientific investigation making accurate measurements and using standard units.			
C.	Learning Competencies	Describe that particles are constantly in motion, have spaces between them, attract each other, and move faster as the temperature increases (or with the addition of heat.)	Describe that particles are constantly in motion, have spaces between them, attract each other, and move faster as the temperature increases (or with the addition of heat.)	Describe that particles are constantly in motion, have spaces between them, attract each other, and move faster as the temperature increases (or with the addition of heat.)	The learners shall be able to use diagrams and illustrations to describe the arrangement, spacing, and relative motion of the particles in each of the three states (phases) of matter.
D.	Learning Objectives	At the end of the lesson, the learner shall be able to: a. show how particles of solids, liquids, and gases move with an increase/	At the end of the lesson, the learners shall be able to: a. describe phenomena of how particles of solids, liquids, and gases move with	At the end of the lesson, the learners shall be able to: a. explain one phenomenon in our community/ environment on how particles of	At the end of the lesson, the learners shall be able to: a. compare the arrangement, spacing, and movement of particles in



	<ul> <li>decrease in temperature.</li> <li>b. infer the movement of solids, liquids, and gases.</li> <li>c. recognize and appreciate the scientific values of curiosity, observation, and critical thinking in how solid, liquid, and gas particles behave with temperature changes.</li> </ul>	<ul> <li>increase/decrease in temperature.</li> <li>b. observe the motion of states of matter in response to temperature.</li> <li>c. maintain curiosity when observing and describing how particles of solids, liquids, and gases move with an increase/decrease in temperature.</li> </ul>	<ul> <li>solids, liquids and gases move with increase/decrease in temperature.</li> <li>b. compare and contrast the movement of particles in the solid, liquid, and gas states.</li> <li>c. engage in critical thinking to analyze and interpret the observed phenomena, considering the underlying scientific principles that govern particle movement.</li> </ul>	<ul> <li>solids, liquids, and gas;</li> <li>b. explain the relationship between the arrangement of particles and the observable properties of solids, liquids, and gases;</li> <li>c. engage in critical thinking to analyze and interpret the relationships between the arrangement of atoms and the observable properties of different states of matter.</li> </ul>
E. Instructional Design Framework (IDF) Features F. 21 <sup>st</sup> Century Skills	Context Collaboration Ideational Engage Critical thinking	Context Collaboration Ideational Engage Critical Thinking Collaborative	Collaboration Ideational Explore Critical thinking	Context Collaboration Ideational Explore Critical Thinking Collaborative
II. CONTENT	Effect of temperature on the movement of particles in the 3 States of Matter	Phenomena of how particles of solid, liquid, and gases move	The phenomenon in the community/environment on how particles of solids, liquids, and gases move	Arrangement of particles in the 3 States of Matter



III. LEARNING RESOU	RCES			
A. References	Bayquen, Aristea V., et.al. (2022) Exploring Life Through Science: General Chemistry. Quezon City, Philippines: Phoneix Publishing, Inc	Bayquen,Aristea V., et.al. (2022) Exploring Life Through Science: General Chemistry. Quezon City, Philippines: Phoneix Publishing, Inc	Bayquen,Aristea V., et.al. (2022) Exploring Life Through Science: General Chemistry. Quezon City, Philippines: Phoneix Publishing, Inc	Bayquen,Aristea V., et.al. (2022) Exploring Life Through Science: General Chemistry. Quezon City, Philippines: Phoneix Publishing, Inc
	Jez, Joseph , et. al (2021). Encyclopedia of Biological Chemistry Armsderman, Netherlands: Elsevier	Jez, Joseph , et. al (2021). Encyclopedia of Biological Chemistry Armsderman, Netherlands: Elsevier	Jez, Joseph , et. al (2021). Encyclopedia of Biological Chemistry Armsderman, Netherlands: Elsevier	Jez, Joseph , et. al (2021). Encyclopedia of Biological Chemistry Armsderman, Netherlands: Elsevier
B. Other Learning Resources	https://sciencing.com/e ffect-temperature- states-matter- 8601348.html https://www.toppr.com /ask/question/explain- the-effect-of- temperature-on-the- state-of-matter/	https://www.youtube.c om/watch?v=ixNoDpD 02WU		
	EARNING PROCEDURES			
Before/Pre-Lesson Pro	oper CLASSIFYING TASK	DRAW IT!	ARRANGE ME!	LARAWAN KO
	CLASSIF HING TASK	DRAW II!	ARRANGE ME:	SURIIN MO!!!
Activating Prior Knowledge	Learners will classify each statement as a substance or mixture.	Draw and explain the behavior of colored ink in the water.	Learners will arrange and explain the molecules of solid,	(Picture Analysis) The teacher will
		2	liquid, and gas in the	present pictures,



# Write **S** for substance **M** for mixture and

1. A form of matter that has a constant composition and properties

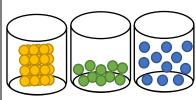
Answer: S

2. there is no chemical force between the constituent component

### Answer: M

- 3. A physical combination of two or more different kinds of particles *Answer: M*
- 4. It is composed of one kind of atom or particle.
  Answer: S
- 5. It is made up of a particular combination of atoms that are chemically bonded. *Answer: S*

container using the colored cut-outs circles.



solid liquid gas

**Phases Change** a. Melting

b. Freezing

it happened.

c. Evaporating

and the learners

will identify the

change that took place in the

following samples

and explain how

type of phase

- d. Condensation
- e. Sublimation



Icicles in plant Type: \_\_\_\_\_ Explanation: \_\_\_\_



The ice cube melts. Type: \_\_\_\_\_ Explanation: \_\_\_\_\_



				Steam from boiling water. Type: Explanation:
				Dry ice in a spoon Type: Explanation:
Lesson Purpose/Intention	The teacher will demonstrate in the class how ice cubes melt at different temperatures. <b>Guide Question:</b> 1. What happens to the movement of particles of ice cubes as they melt at different temperatures?	WHERE DO I BELONG? The teacher will place clear containers labeled as solid, liquid, and gas on a table and show the objects to the students, and ask them to categorize each object into the correct container	The teacher will show an image of a typhoon.	Based on the picture analysis the teacher will ask the learners what differences they can identify between solid, liquid, and gas





				-
	words and their meanings and the way	terms and descriptions to help them	terms and descriptions to help them understand	learners some science terms and
	they are used in the	understand today's	today's lesson.	their descriptions
	lesson.	lesson.		to understand
				some properties of
	<b>compound</b> is a substance composed	temperature- the	solids (dust	solids, liquids,
	of different kinds of	measure of hotness or	<b>particles):</b> particles in the atmosphere can	and gases.
	particles	coldness expressed in	serve as nuclei for	*Compressibility
	F	terms of any of several	cloud formation,	*Arrangement and
	matter refers to any	scales, including	where water vapor	movement of
	object, big or small.	Fahrenheit and	condenses around	particles
		Celsius.	these particles to form	
	<b>particle</b> tiny piece of		clouds.	adhesive force is a
	matter	thermometer- an		force present
	<b>vapor</b> refers to gas.	instrument that	liquids (ocean	between two molecules of
	vapor refers to gas.	measures	water): the movement	different kinds.
		temperature.	of liquid water in the form of droplets.	uniciciit kinus.
		<b>molecule</b> – a group of	iorini or dropiets.	<b>capillarity</b> is the
		two or more atoms.	gases (air	rise of liquid on the
			<b>particles):</b> the moving	walls of a thin tube.
			particles, in the form	
			of gases, contribute to	cohesive Force is
			the development and	the force between molecules of the
			intensity of the	same kind.
			typhoon.	Same Kinu.
				intermolecular
				force is the force
				between molecules.
During/Lesson Proper		1	1	
	The learners will be	The learners will be		Particle Attraction
Reading the Key	asked to read the	asked to read the	Formation of a	
Idea/Stem	material below.	material below.	Typhoon	Particle attraction is
				a fundamental
		-		concept in the study
Micamic St E	Para Partan Overan City	7		

Important Matters	Maria's Melting	In a Philippine setting,	of matter,
	Mystery	the formation of a	highlighting the
Matter is composed of		typhoon showcases the	forces that exist
particles. These	In the heart of a	intricate dance of	between particles at
particles are in	bustling Filipino	particles in different	the microscopic
constant random	market, there was a	states of matter - solid,	level. In all states of
motion. Particles in	young science	liquid, and gas - coming	matter - solid,
liquids and gases move	enthusiast named	together to create a	liquid, and gas -
from one place to	Maria who loved to	powerful tropical storm	particles interact
another in an object	observe the world	that impacts the region.	with each other
while particles in	around her. One		through various
solids vibrate from	sweltering afternoon,	The process begins as	types of attractions.
their position.	Maria noticed	warm ocean waters off	In solids, particles
	something intriguing	the Philippine coast	are closely packed
When particles absorb	as she watched the	evaporate into water	together, held in a
heat, they become	street vendors at work.	vapor, transitioning from	fixed position by
"excited" such that		a liquid to a gas state.	strong
they move faster and	As the sun beat down	This water vapor rises	intermolecular
farther. As they move	on the pavement,	into the atmosphere,	forces, leading to a
faster and farther,	Maria saw a block of	where it cools and	stable and rigid
the size of the object	ice slowly melting in a	condenses back into	structure. In
increases. The	nearby vendor's cart.	liquid droplets, forming	liquids, particles
increase in size due	Curious, she	the signature dense	have more freedom
to absorption of heat	approached the vendor	clouds associated with	to move past each
is called Thermal	and asked why the ice	typhoons.	other, with weaker
Expansion. Different	was turning into water.		forces allowing for
objects expand in	The vendor, Mang	As these clouds continue	fluidity and the
different amounts.	Juan, smiled and		ability to take the
	began to explain.	to grow and merge, the	shape of their
<b>Guide Questions:</b>	segui to explain.	water droplets within	container. In gases,
1. Explain the	"Als Design "Design"	them further condense,	particles are far
behavior of particles	"Ah, Maria," Mang	releasing heat energy into	apart and move
in solid, liquid, and	Juan began, "you see,	the atmosphere. This	freely, experiencing
gas.	everything around us is	released heat fuels the	minimal attraction
G	made up of particles.	storm, leading to the	to each other due to
Answer:	When the ice is	rapid upward movement	the significant
Particles in liquids and	exposed to the heat	of warm, moist air that	distance between
gases move from one	from the sun, the	generates an area of low	them.
64400 more nom one	particles start to gain	pressure at the surface.	



place to another in an energy a	and move		Understanding the
J 1	This increase in	As the typhoon gains	nature of particle
	causes the ice	strength, the air starts to	attraction provides
1	and turn into	circulate	insights into the
water."		counterclockwise in the	behavior and
2. How does the		Northern Hemisphere	properties of
	eyes widened in	(clockwise in the	different states of
	tion as she	Southern Hemisphere)	matter, shaping our
in the size of an watched		due to the Coriolis effect,	comprehension of
	rm before her	intensifying the storm's	the physical world at a molecular level.
	ang Juan	structure. The swirling	at a molecular level.
	ed, "Similarly,	winds pick up speed, and	<b>Guide Questions:</b>
	e heat a pot of	at the center of the	1. How does the
	make our	typhoon, an eye forms,	strength of
avoine	Filipino dishes,	characterized by calm	particle
	ticles of water	weather.	attraction differ
	energy and ore rapidly,		among the three
	lly turning into	In essence, the formation	states of matter
increases. steam."	iny turning into	of a typhoon in the	- solid, liquid,
Steam.		Philippine setting illustrates the intricate	and gas?
Maria	rea continuated	interplay of particles	
	vas captivated explanation and	transitioning between	Answer:
	to conduct her	states of matter - from	In solids, particle
	beriments at	liquid water to gaseous	attraction is
-	bserving how	water vapor and back to	strongest, keeping
	t materials	liquid in the form of	particles in fixed
behaved		clouds. This dynamic	positions. In liquids,
	ature changes.	interaction, coupled with	particle attraction is
Through		various atmospheric	moderate, allowing
	tions and	conditions, contributes to	particles to move
	ients, Maria	the genesis and	past each other while
deepene		escalation of a typhoon	remaining close. In gases, particle
-	anding of how	that impacts the local	attraction is
	s in solids,	community and	weakest, allowing
-	and gases	environment.	particles to move
moved	with increases		freely and be far



and decreases in		apart.
temperature.	Guide Questions:	-
		2. What role does
Inspired by the	1. What is the initial	particle
wonders of science she	states of water	attraction play
discovered in her	particles in the	in determining
everyday surroundings,	formation of a typhoon	the properties
Maria shared her	over warm ocean	and behavior of
newfound knowledge	waters?	substances in
with her friends and		different states
family, sparking a	Answer:	of matter?
sense of curiosity and	The initial state of water	
exploration in others in	particles in the formation	Answer:
their Filipino	of a typhoon is in the	In solids, strong attractions keep
community. And so,	liquid state as warm	particles in fixed
under the warm	ocean water evaporates	positions, giving
Philippine sun, Maria's	into water vapor.	solids a definite
passion for science and	O How door the best	shape and volume.
discovery continued to grow, illuminating the	2. How does the heat energy released during	In liquids, moderate
path for others to	the condensation of	attractions allow
marvel at the beauty of	water vapor contribute to	particles to move
the natural world and	the intensification of a	past each other,
the phenomena of	typhoon?	giving liquids a
particle movement with	c) proon.	definite volume but
temperature changes.	Answer:	no fixed shape. In
	The heat energy released	gases, weak
<b>Guide Questions:</b>	during the condensation	attractions allow
1. What happens to	of water vapor fuels the	particles to move
the particles of a solid	storm by causing warm,	freely, resulting in no
when it is heated?	moist air to rise rapidly,	fixed shape or
	creating an area of low	volume.
Answer:	pressure that intensifies	
When a solid is	the typhoon's strength	
heated, the particles		
gain energy and begin		
to vibrate more		
to vibrate more		



 · · · · ·	
vigorously. This	
increased energy	
causes the particles to	
overcome the forces	
holding them in a	
fixed position, leading	
to a phase change	
from a solid to a	
liquid.	
2. How does the	
movement of particles	
in a gas change with a	
decrease in	
temperature?	
temperature?	
Answer:	
As the temperature of	
the gas decreases, the	
particles lose energy	
and move more	
slowly. This reduction	
in kinetic energy	
causes the gas	
particles to come	
closer together,	
eventually leading to a	
phase change from	
gas to a liquid	
through a process	
known as	
condensation.	



	751 . 1 . 11	751 1 11		751 1 11
	The students will	The learners will	The Learners will	The learners will
	perform two activities	perform a simple	perform a simple	be asked to read
	showing how particles	activity.	activity	out and answer
	of solids, liquids, and			the question.
	gases move with an	Objectives:	Exploring Particle	
	increase/decrease in	To observe how the	Movement	While in class, a
	temperature.	motion of particles		peer sprayed
		changes in response	<i>Objective:</i> To observe the	perfume, and you
	Station A:	to temperature	movement of particles in	quickly detected
	The Tiny Mighty One!	variations.	different states of matter	its fragrance in
	The learners will		unicient states of matter	the air.
	observe the movement	Materials:	Materials:	
	of colored ink in the		•3 clear containers	<b>Guide Questions:</b>
	water.	- Clear container	(cups or glass jar)	
		- Water	•50 mL Water	1. Explain the
		- Food coloring	•1 tablespoon of food	process
	Guide Questions:	(optional)	coloring	by which the
	1. Why does the water	- Thermometer	• 3 tablespoons of	fragrance of the
Developing	change in color?	- Hot water	cornstarch	sprayed perfume
Understanding of the	-	- Cold water	• balloon	reached your nose in
Key Idea/Stem	2. Did the color spread faster in water?		• Dalloon	the air, considering
			Procedure: Solid	the movement of
	3. What does the color	Procedure:	(Cornstarch)	particles involved.
	change suggest		(comstarch)	2. Discuss how
	about the behavior	1. Fill the clear	1. Fill one container	the
	of particles?	container with	with water.	dispersion of the
		water.	2. Slowly add cornstarch	perfume's
	Station B: Inspired!	2. Add a few drops of	or flour to the water	fragrance
		food coloring to	while stirring until	in the classroom
	The learners will	make it easier to	you get a mixture	relates to the
	observe the different	observe the	with a thick, solid-like	concept of
	movements of particles	motion of	consistency.	diffusion and the
	in Set Up A and Set Up	particles.	3. Observe the behavior	behavior of
	В.	(optional)	of the particles in the	particles
		3. Use the	cornstarch-water	in the air.
	Guide Questions:	thermometer to	mixture when you stir	
	1. What do the mongo	measure the	it quickly and when	Fill out the table
	seeds represent?	initial temperature	you let it	to compare the
		10	you let it	1 1 1 1 1





	<ul> <li>d. Make 3 set-ups in Station A and two set-ups in Station B to avoid overcrowding.</li> <li>Remind the learners to be careful and not be playful since some materials are made from glass while some are hot.</li> </ul>	The learners will be		The teacher calve
Deepening Understanding of the Key Idea/Stem	The learners will be asked to answer the questions and/or explain their responses through a group presentation. <i>Group 1</i> – Vlogging Why is it not advisable to fill the kettle to the brim when boiling water? <i>Group 2</i> – News Casting Why do particles in a solid, liquid, and gas behave differently with changes in temperature?	<ul> <li>The learners will be asked to read out and answer the following questions:</li> <li>Guide Questions:</li> <li>1. How did the motion of particles in the water change when the temperature increased?</li> <li>2. Compare the movement of particles in the water when the temperature was initially measured and after adding hot water. What do you notice?</li> <li>3. What happened to the motion of particles in the water when cold</li> </ul>	<ul> <li>The learners will be asked the following questions:</li> <li>Guide Questions:</li> <li>1. How did the movement of particles in the cornstarch-water mixture differ from the movement of particles in the water with food coloring?</li> <li>2. What properties of solids and liquids were demonstrated through the observations of the cornstarch-water mixture and the water with food coloring?</li> <li>3. In the gas state, as represented by the inflated balloon, how</li> </ul>	The teacher asks students to read out and answer the following questions: 1. Regarding the insect walking on the surface of water, how would you compare the adhesive force between the insect's feet and water and the cohesive force between water particles?



		water was added? Describe any changes you observed.	<ul> <li>did the movement of air particles inside the balloon compare to the movements observed in the cornstarch-water mixture and the water with food coloring?</li> <li>4. What characteristics of gases were exemplified by the behavior of the air particles inside the inflated balloon during the experiment?</li> </ul>	
After/Post-Lesson Prop Making Generalizations and Abstractions	Directions: The learners will pick the question inside a box and answer the question picked. Q. What role does temperature play in influencing the behavior of particles in different states of matter? Answer: Temperature influences the energy and movement of particles in matter. It can alter the	The teacher will ask the learner to describe how the particles of solids, liquids, and gases move with an increase or decrease in temperature.	How does the formation of a typhoon exemplify the intricate interplay between different states of matter?	The teacher will ask learners to give examples or proof that the particles of matter are moving.



	arrangement of particles, affect their interactions, and lead to phase changes between solids, liquids, and gas states.	Directions: Write the	Directions: Write the	Directioner Comment
Evaluating Learning	<ul> <li>Infection: write the letter of the correct answer:</li> <li>1. Which of the following about particles of matter is TRUE?</li> <li>I Particles move all the time.</li> <li>II Particles of the same kind move in the same direction.</li> <li>III Particles move in no particular direction.</li> <li>IV Particles in a solid move back and forth in their position.</li> <li>A. Statement I is true and statement II is false.</li> <li>B. Statements I, III, and IV are true, and Statement II is false.</li> <li>C. Statements II, III, and IV is true and statement I is false.</li> <li>D. Statements III and IV are false.</li> <li>D. Statements I and II are false.</li> </ul>	<ul> <li>Directions. Write the letter of the correct answer.</li> <li>1. If the temperature increases rapidly, what happens to the particles</li> <li>Mark and a solids</li> <li>A. Pouring it into a container</li> <li>B. Heating it until it boils</li> <li>C. Cooling it until it freezes</li> <li>D. Keeping its temperature, the same</li> <li>3. What happens to the process of melting?</li> </ul>	<ul> <li>Diffections, write the letter of the correct answer.</li> <li>1. How does the formation of a typhoon typically begin?</li> <li>A. With snowfall in the Atmosphere</li> <li>B. With warm ocean water evaporating into water vapor</li> <li>C. With the formation of ice crystals in the clouds</li> <li>Answer: B</li> <li>2. What state of matter does warm ocean water primarily transform into during the formation of a typhoon?</li> <li>A. Solid</li> <li>B. Liquid</li> <li>C. Gas</li> <li>Answer: C</li> </ul>	Directions: Compare the aspect of solid, liquid, and gas. ASPECT SOUD UQUD Arrangement of Atoms Spacing Movement



Answer: B2. When particles absorb heat they	<ul> <li>removed.</li> <li>4.Why does liquid water take the shape of a cup it is poured into, but solid ice cubes do not?</li> <li>A. Because the particles of liquid water can easily move fast to one another, but the particles of solid ice cannot</li> <li>B. Because the particles of liquid water are moving but the particles of solid ice are not.</li> <li>C. Because the particles of liquid water are smaller than the particles of solid ice</li> <li>D. Because the</li> </ul>	<ul> <li>3.How do clouds form during the formation of a typhoon?</li> <li>A. By freezing water vapor into ice crystals</li> <li>B. By condensing water vapor into liquid droplets</li> <li>C. By condensing water vapor into liquid droplets</li> <li>Answer: B</li> <li>4. What atmospheric factor fuels the storm and causes the air to rise rapidly in a typhoon?</li> <li>A. Decreasing wind speeds</li> <li>B. Cooling temperatures</li> <li>C. Release of heat energy from condensing water droplets</li> <li>Answer: C</li> </ul>
	than the particles of solid ice	



<ul> <li>A. To make the road look safer and more pleasing to see</li> <li>B. To make the sizes of the blocks of concrete equal</li> <li>C. To help sleepy drivers become more alert</li> <li>D. To allow expansion during a hot climate</li> <li>Answer: D</li> <li>4. A scientist in a space laboratory drops a drop of red ink on a glass of water. Which illustrates the motion of ink in the</li> </ul>	<ul> <li>5. In a cup of liquid water, when would the water molecules move slowly?</li> <li>A. The particles would move slowly if the liquid water in the cup became a gas.</li> <li>B. The particles would move slowly if the liquid water in the cup became solid.</li> <li>C. The particles would move slowly if the liquid water in the cup became solid.</li> <li>C. The particles would move slowly if the liquid water in the cup became solid.</li> <li>D. The particles would not move slowly in the cup of liquid water.</li> </ul>	
water? A. B. $\bullet$ C. D. Answer : D	of fiquid water.	



Additional Activities for Application or Remediation (if applicable)	Creating a pamphlet illustrating the movement of particles in solids, liquids, and gases with changes in temperature.	Learners can research and present additional examples of how temperature affects particle movement in specific materials. Expected output: 1. Materials 2. Specific examples 3. Observation 4. Conclusion	<ul> <li>Ask learners to research the impact of climate change on the role of technology in predicting and tracking typhoons.</li> <li>Expected output: <ol> <li>Materials</li> <li>Specific examples</li> <li>Observation</li> </ol> </li> <li>4. Conclusion</li> </ul>	The learners will give examples from everyday life where they encounter solids, liquids, and gases?Watch the video clip from the link. https://www.youtub e.com /watch? v=z Mzqi AuOSz0Write one or two ideas that either support or go against our discussion today.
Remarks				
Reflection	How did creating the pamphlet illustrating the movement of particles in solids, liquids, and gases with changes in temperature deepen your understanding of the behavior of particles in different states of matter?			Reflection:Write your insights about the lesson using the prompts below.I understand that I realized that

