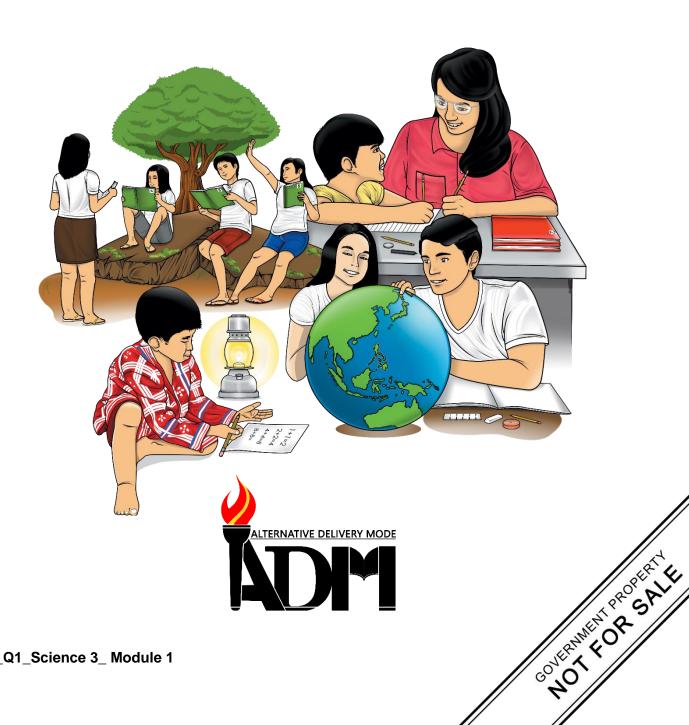




# Science

# Quarter 1 - Module 1: Classifying Objects and Materials



Science – Grade 3 Alternative Delivery Mode

Quarter 1 - Module 1: Classifying Objects and Materials

First Edition, 2020

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# Science

Quarter 1 – Module 1: Classifying Objects and Materials



# **Introductory Message**

This Self-Learning Module (SLM) is prepared so that you, our dear learners, can continue your studies and learn while at home. Activities, questions, directions, exercises, and discussions are carefully stated for you to understand each lesson.

Each SLM is composed of different parts. Each part shall guide you step-by-step as you discover and understand the lesson prepared for you.

Pre-tests are provided to measure your prior knowledge on lessons in each SLM. This will tell you if you need to proceed on completing this module or if you need to ask your facilitator or your teacher's assistance for better understanding of the lesson. At the end of each module, you need to answer the post-test to self-check your learning. Answer keys are provided for each activity and test. We trust that you will be honest in using these.

In addition to the material in the main text, Notes to the Teacher are also provided to our facilitators and parents for strategies and reminders on how they can best help you on your home-based learning.

Please use this module with care. Do not put unnecessary marks on any part of this SLM. Use a separate sheet of paper in answering the exercises and tests. And read the instructions carefully before performing each task.

If you have any questions in using this SLM or any difficulty in answering the tasks in this module, do not hesitate to consult your teacher or facilitator.

Thank you.



This module was designed and written with you in mind. It is here to help you master the skill of classifying objects and materials as solid, liquid, and gas based on some observable characteristics (S3MT-Ic-d-2). The scope of this module allows it to be used in many different learning situations. The language used recognizes the different vocabulary levels of students. The lessons are arranged to follow the standard sequence of the course. But the order in which you read them can be changed to be similar to the textbook you are now using.

The module is divided into four lessons, namely:

- Lesson 1 Objects and Materials Around Us and their Properties
- Lesson 2 Solid Objects or Materials and their Characteristics
- Lesson 3 Liquid Objects or Materials and their Characteristics
- Lesson 4 Gaseous Objects or Materials and their Characteristics

After going through this module, you are expected to be able to:

- 1. Identify and describe objects and materials at home, in school, and the surroundings and classify them as solid, liquid, and gas.
- 2. Recognize and describe the observable characteristics of solid as to color, size, shape, and texture.
- 3. Describe observable characteristics of liquid as to its ability to flow and how they occupy space.
- 4. Name and describe observable characteristics of gas.



Directions: Choose the letter of the best answer. Write the chosen letter on a separate sheet of paper. If you answer all the five questions modules correctly, you may skip this module, but if you do not, you will continue with the activities of this module.

1.	Helen walks to	school every da	y. One afte	rnoon, when she		
	was on her way back to their house, it rained very hard.					
	"Aha! It is good	d that I brought	with me my	umbrella", she		
	said. The rain is	an example of	•			
	A. solid	B. liquid	C. gas	D. solid and gas		
2. A ripe mango is <u>yellow</u> . Which characteristic of solid determines the underlined word?				tic of solid		
	A. size	B. shape	C. color	D. texture		
3. Which of the following materials is gas?						
	A. smoke	B. water	C. alcoho	l D. paper		

- 4. Which of the following is NOT true?
  - A. Solid has weight and occupies space.
  - B. Liquid flows and takes the shape of the containers.
  - C. Gas is everywhere. It has weight and it occupies space.
  - D. Liquid and gas have no weight but occupy space.
- 5. Which of the following statement is true?
  - A. Solid objects and materials can be classified as to color, size, shape, and texture.
  - B. Gas cannot fill the shape of the container.
  - C. Liquid flows and has no weight.
  - D. Solid, liquid, and gas can be classified according to shape and odor only.

Lesson

# Objects and Materials Around Us and their Properties

Matter Around Us

By: Amor M. Garcia

Solid, Liquid, Gas

These are things around us

We can see them; we can touch them

And sometimes we can only feel them

Solid, Liquid, Gas, we see them every day
We feel them every day; they are lovely
Cause they differ in many ways

They differ in size; they differ in shape.

They even differ in color, especially their texture

Solid, Liquid, Gas... they are useful for us

Let us observe them and learn more about them.



# What's In

There are different objects and materials found at home, in school, or the community. They are called matters. They can be solid, liquid and gas.

Name five (5) objects or materials that can be found at home. Write them in the box below and say something about their characteristics. Do this on a separate piece of paper.

	•
/	
<b>\</b>	
-	



### What's New

Everything around us is matter. Matter is anything that has weight and takes up space. Everything you can see and touch is made up of matter. Matter comes in different shapes and sizes.

Why does matter come in different sizes and shapes? Well, that is because matter comes in three forms: solid, liquid, and gas. Solid, liquid, and gas will fill up space in different ways depending upon how big, small, long, or short the object is.

Let us explore more about them and their properties!



Examples of solids are flowers, tables, and chairs. Solids have shape, color, texture, and size.

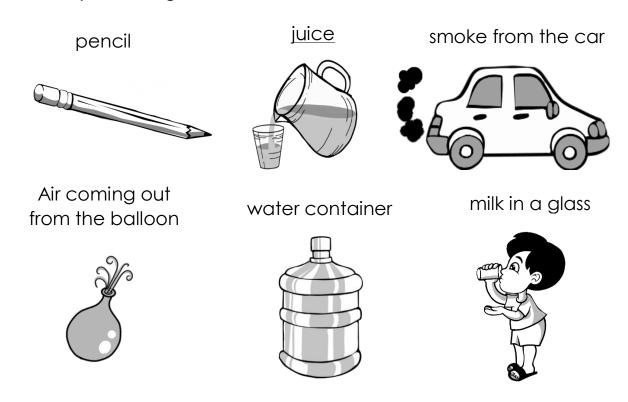
Liquids are objects that we can also touch and see. They change shape depending on the container. It has weight. Water is a famous example of liquid.

Gas is another form of matter. It cannot be seen but is around us. We can feel it. Gas has weight and occupies space. It has no shape or size. The air we inhale is a gas.



# What's More

Everything around us is matter. You can classify them into solid, liquid, and gas.



Which object is solid?
Which object is liquid?
Which object is gas?

Write  $\underline{S}$  if the object is solid and  $\underline{L}$  if the object is liquid and  $\underline{G}$  if it is gas.



\_\_\_\_2. An empty glass



\_\_\_\_3. A kilo of nail



\_\_\_\_4. Creamy milk



\_\_\_\_5. Air in the balloon





# What I Have Learned

- ✓ Matter is everything around us.
- ✓ It has mass and weight.
- ✓ Three forms or states of matter are Solid, Liquid, and Gas

## What I Can Do

Objects and materials found at home are matter. Can you identify them? Draw three (3) examples for each phase.

Solid	Liquid	Gas

Answer the following questions.

1.	What state	of matter	is the	object	or material	that you	ı draw?
----	------------	-----------	--------	--------	-------------	----------	---------



### Assessment

Direction: Write $\underline{I}$ if the statement is true and $\underline{F}$ if it is false.
1. Solid has no definite shape and weight.
2. A solid can be described through its shape, color, size
and texture.
3. Liquid has the ability to flow.
4. Gas occupies the space of the container.
5. Liquid and gas take the shape of the container.



Directions: Compare the following states of matter. Write  $\underline{Yes}$  if the statement will answer the state of matter and  $\underline{No}$  if it is not.

Description	Solid	Liquid	Gas
1. It can be touched.			
2. It can be seen.			
3. It has definite shape.			
4. It has volume.			
5. It takes the shape of			
the container.			

Lesson

2

# Solid Objects or Materials and their Characteristics



### What's In

In the previous lesson, you have learned that there are three forms or states of matter namely solid, liquid, and gas. In this lesson, you will learn more about solid. Solid has different observable characteristics. It has shape, size, color, and texture.

Solids have different shapes such as round, square, rectangle, triangle, and oblong. They have different colors, too. They can be red, blue, yellow, orange, green, brown, gray, white, and black.

Solid has its size. You can measure their length and width using a ruler for small objects, and a meter stick for longer objects. It may have similar and different sizes, such as tall, long, short, big, and small.

You can describe the objects and materials' texture through your sense of touch, whether it is rough, hard, and soft.



Describe how these of objects were classified. Try this.

Object	Color	Shape	Size	Texture
ball	red	circle	small	rough
book	green	rectangle	big	smooth
box	blue	square	small	smooth
wall clock	black	circle	big	smooth
pillow	yellow	square	big	smooth

### For Example:

The color of the ball is red. The ball is small. Its shape is a circle. It is rough when you touch it.

Now it is your turn!

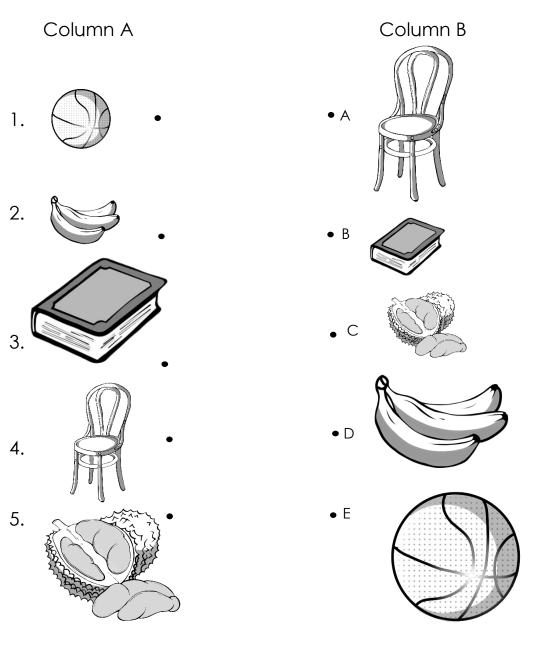
Look for solid materials around you. List them below and tell their observable characteristics. Do this in your notebook.

OBJECT	COLOR	SHAPE	SIZE	TEXTURE

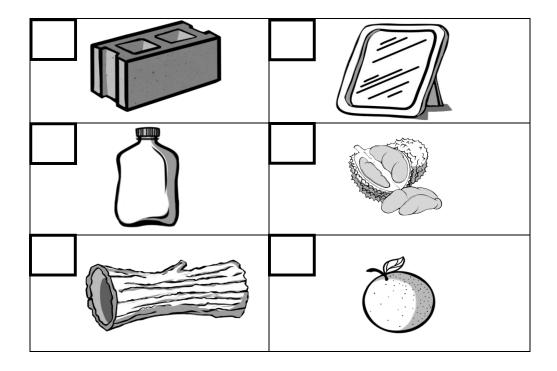


# What is It

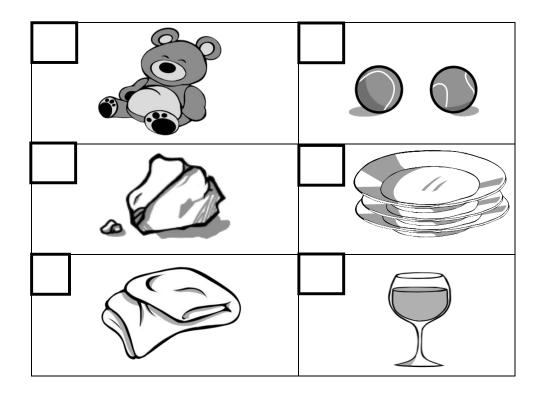
Activity 1. Connect the solid in Column A with its opposite size in Column B.



Activity 2. Mark (/) if the object is **Rough** and (x) if the object is **Smooth**.



Mark (/) if the object is **Hard** and (x) if the object is **Soft**.



### Answer the question:

1. What are the observable characteristics of solid objects?



# What's More

#### Let us master this!

Direction: Identify the shape, color, size, and texture of the following objects. Write your answer in the space provided.

1.	Shape	
	Color	
	Size	
	Texture	
2.	Shape	
	Color	
	Size	
	Texture	
3.	Shape	
	Color	
	Size	
	Texture	
4.	Shape	
	Color	
	Size	
	Texture	
5.	Shape	
	Color	
	Size	
	Texture	



# What I Have Learned

- ✓ Solids have certain color, size, shape, and texture.
- ✓ Solids have different colors. They can be red, blue, yellow, orange, green, brown, gray, white, and black.
- ✓ Solids have different shapes, such as round, square, rectangle, triangle, and oblong.
- ✓ Solids have different sizes such as big, small, long, short and tall.
- ✓ Solids have texture. It can be smooth or rough.
- ✓ Solid can be classified according to color, size, shape, and textures.



# What I Can Do

Directions: Name and identify the color, shape, size and texture of

the objects.  Object	<u>Name</u>	<u>Color</u>	<u>Shape</u>	<u>Size</u>	<u>Texture</u>
<u>Object</u>		<u>COIOI</u>	<u> </u>		

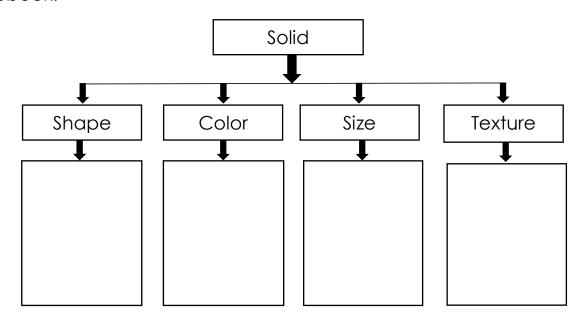


Directions: Match the characteristics of solid in Column A to Column B. Choices in Column B can be used twice. Write the letter of your answer in the space provided.

Column A	Column B
1. round table	A. size
2. green mango	B. shape
3. rough surface	C. color
4. big notebook	D. texture
5. soft pillow	

# Additional Activities

Directions: Write the different observable characteristics of solid to complete the graphic organizer. Do this in your notebook.



Lesso

# Liquid Objects or Materials and their Characteristics



# What's In

Liquid is an object that occupies space and takes the shape of a container. It can be poured and flow fast or slow.

In this lesson, you will learn the different observable characteristics or properties of liquids.



#### Notes to the Teacher

Learning by doing is exciting. Be guided with an adult or your parents for safety measures. You may assist the learner in coming up with his/her observation.

Observe the drawing.



Picture 1



Picture 2

How does the liquid flow?

Picture 1 \_\_\_\_\_

Observe the different characteristics of liquid. Record or write your observations

Let us try these.

- 1. Pour water into a glass.
- 2. Fill in a basin with water.

Picture 2	
Answer	the following questions:
1. Wh gla	at have you observed when you poured water on c ss?
	at have you observed when you fill in a basin with ter? How did you do it?
3. Wh	en you compare the shape of the water in a glass

and in a basin. What have you observe? \_\_\_\_\_



# What's New

Liquids come in different colors, like black, red, and yellow. Some liquids are colorless. They also vary in taste. Some are sweet, sour, bitter, or salty. They have good smell like perfume, syrup, shampoo, and fabric conditioner, others have bad odor like fish sauce and vinegar. Some liquids are odorless. Let us do this!

Direction. Put a checkmark on its appropriate column.

# A. Taste Chart

	Taste			
Liquids	Sweet	Sour	Bitter	Salty
Vinegar				
Chocolate milk				
Ampalaya				
Soy sauce				
Lemon juice				

# B. Smell or odor Chart

	Smell or odor		
Liquids	Good	Bad	
Perfume			
Gasoline			
Bleach			
Fabric conditioner			
Cologne			



# What is It

You can classify liquids according to their observable characteristics. You can group them according to color, shape, taste, and smell.

Record your observations. Write your answer in the space provided for you.

Name of	Descriptions			
Liquid	Color	Shape	Taste	Smell
Soy sauce				
Honey				
<u>Fish sauce</u>				
Perfume				
Shampoo				



# What's More

Liquid has the ability to flow. Some liquids flow fast while some flow slow. Based on your observation, classify the following examples of liquid on these particular characteristics.

oil cola honey soy sauce ketchup

Flows fast

Flows slow



# What I Have Learned

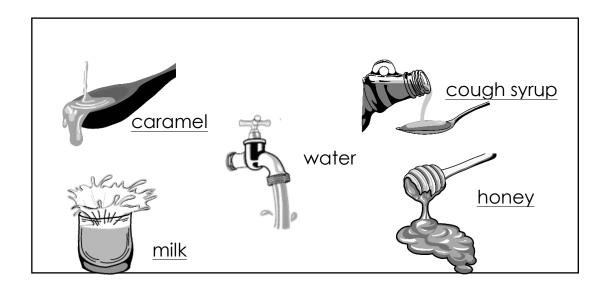
- ✓ Liquid takes the shape of the container
- ✓ Liquid can be poured and flows fast or slow.
- ✓ Liquids have different colors, like black, white, and yellowish. Some are colorless.
- ✓ Liquids vary in taste. Some are sweet, sour, bitter, or salty.
- ✓ Liquids have good or bad smells or odors. Some are odorless.



Describe how the following materials flow.

Direction: Choose your answer in the word bank to complete the sentence.

Word Bank: whiter sweeter faster



- 1. Water flows \_\_\_\_\_than the milk.
- 2. Honey taste \_\_\_\_\_than the cough syrup.
- 3. Milk is \_\_\_\_\_than the caramel.



5. It has rough texture.

Direction: Supply the missing word. Write the word on the blank to complete the paragraph.

like	Liquid takes the shape of the It has ability to flow or Furthermore, liquids have different colors, black, white and yellow. The taste can be, or salty. Its smell can be or bad.
	Additional Activities
	Direction: Blacken the box if the statement describes liquid.
	<ul><li>1. It has the ability to flow.</li></ul>
	2. It has no definite shape.
	3. It has different colors.
	4. It takes the shape of the container.

Lesson

4

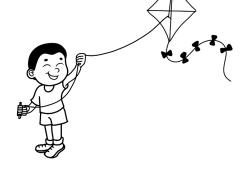
# Gaseous Objects or Materials and their Characteristics



# What's In

Air is around us. Air is an example of a gas. We cannot see it, but we can feel and smell it. We see object moves. In this lesson, you will learn different observable characteristics of gas.

Have you tried flying a kite?



How did the kite fly?

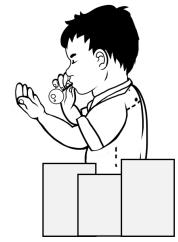
What did the kite need to fly?



# What's New

Gas is another state of matter. It does not have a definite shape and size. It spreads out to fill its container. It cannot be seen but can be felt.

Study the picture.



Answer the following questions:

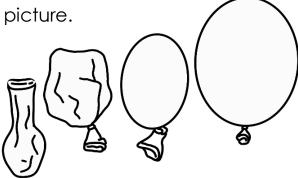
- 1. What was the boy doing?
- 2. How did he do it?
- 3. What did you discover? \_\_\_\_\_



# What is It

Gas has no definite size and shape, but it takes the shape of the container. Air fills and moves freely in the container.

Observe the picture.



It is your turn to do this!

- 1. Blow air in the balloon or plastic bag. What happened?
- 2. Why do you think it happened?



# What's More

Direction: Put a checkmark on the object that can be filled with air.

- 1. tire
- 2. pitcher
- 3. gas tank
- 4. rubber ball
- 5. sponge



# What I Have Learned

- ✓ Gas does not have a definite shape and size.
- ✓ Gas spreads out to fill its container.
- ✓ Air fills and moves freely in the container.



Direction: Write <b>Yes</b> if the statement is correct and <b>No</b> if it is not.
1. Gas does not have a definite shape and size.
2. Air does not occupy space.
3. We can see the air around us.
4. Air moves freely in the container.
5. We can keep the air inside our pockets.



# **Assessment**

Directions: Fill in the missing word. Write the word in the blank to complete the paragraph.

Gas is another state of \_\_\_\_\_\_. It does not have definite \_\_\_\_\_and \_\_\_\_\_. It spreads out to fill its \_\_\_\_\_. Moreover, gas cannot be seen but we can \_\_\_\_\_it like the air.



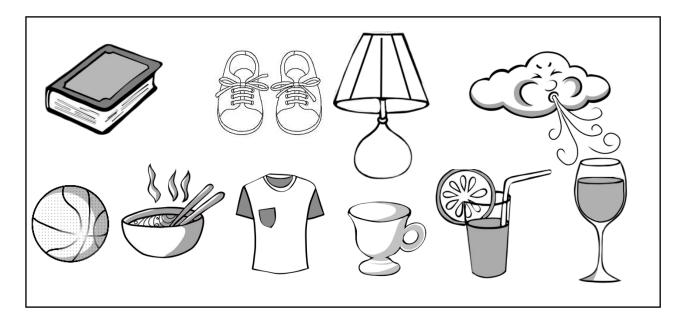
# Additional Activities

Directions: Look at the words in box. Check those that you think are example of gas.

_				
	Inflated balloon	oxygen tank	thin book	
	block of wood	marbles	steam	
	pineapple juice	fire extinguisher	air pump	
ı				



Group the following objects below. Draw and write their names on the proper column.



Solid	Liquid	Gas

1. How did you classify the objects?



Activity I. Direction: Use your crayons. Color the word **RED** if it is a solid, **BLUE** if it is a liquid, and **YELLOW** if it is a gas.

ballpen	lemon juice	scisso	r ink	bath soap oil
eye glass	oxygen	smoke	vinegar	plastic balloon

Activity II. Classify whether the object is a liquid or a gas. Write the word Liquid or Gas in the opposite box. Do this in your notebook.

Object		Classification
1. Balloon	×	
2. Flowing water		
3. Smoke	Ĺ	
4. Sunkist Cola		
5. LPG		

Smell or odor

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ΟN
                           \mathsf{Yes}
                                 ٦.
                                 .ε
                            ΟN
                            ΟN
                                 ٦.
                           l. Yes
                        What I Can Do
                         5. sponge
                     4. rubber ball
                        3. gas tank
                         2. pitcher
                             J. tire
                          filled with air.
  on the object that can be
Directions: Put a check mark
                          What's More
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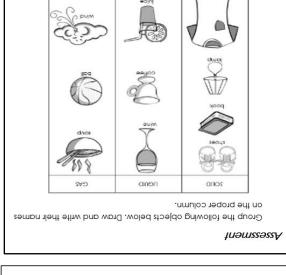
# Additional Activities

think as an example of gas. Directions: Look and mark check of the words in box that you

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              Ire extinguisher /
                                  esiuį elqqbeniq
    mpəts
                      warples
                                   block of wood
              oxlâeu ţauk \
                                 / noollad bətaltri
  thin book
```

objects. BLUE if it is liquid and YELLOW if it is a gas. Activity I. Direction: Use your crayons. Color the word RED if it is solid

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path soap
                                      liO
                                 vinegar
                eke alass
                                     ļυĶ
              emon juice
                                 paliben
2CISSOL
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Cologne 👖

Bleach

Gasoline

Perfume

sbiupiJ.

B. Smell or odor Chart

Fabric conditioner

Feel Container

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1. Matter

zyabe

Lesson 4 Assessment









Direction: Identify the shape, color, size and texture of the

following objects. Write your answer on the space provided.

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oM s'tadW	BC

swall əzis Color ənjq syabe

gid	əzi2	
Green	Color	
rectangle	Syabe	2.9
ytooms	Texture	
gid	əzi2	
ətidw	Color	
round	zyabe	.4.
rough	Texture	<b>A</b> .
gid	əzi2	
đιαλ	Color	
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Salty

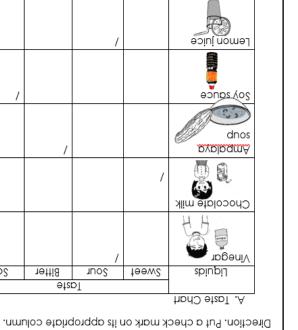
Bitter

Taste

Sour

Sweet

.5 4. D .ε C B .2 Matching type **Assessment** 



Lemon Juice

20λ zance

Chocolate milk

sbiupiJ.

A. Taste Chart

√inegar

What's New

**ESSON 3** 

dnos γωραίανα

<u>Texture</u> Small, big, tall, long, short <u>əzi2</u> olange, gray, brown green, blue, violet, White, black, yellow, red, <u>COIOL</u> oblong, square, triangle round, rectangle, <u>Spape</u> Additional Activities

rough, smooth, hard, soft

Activity 3 Mark ( \ ) if the object is HARD and

(x) if the object is SOFT

ti si todW Lesson 2

#### CO\_Q1\_Science 3\_ Module 1

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aendina on the answer
Answer may vary
uI s'tod'
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the learners

:snoitsəu What's More

Pencil, water container Which object is solid?

#### Juice, milk in a glass Which object is liquid?

coming out the balloon Smoke from the car, air Which object is gas?

and G if it is gas. and  ${\bf L}$  if the object is **liqui**d Write 5 if the object is solid

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ti si todW Lesson 2



















































































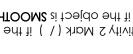












Examble: What's New

The color of the ball is red. The ball is small. Its shape

Look for Solid materials around you. List them and os a circle. It is rough when you touch it

tell its observable characteristics

QO

I				33.1	
I					
I	Texture	əziS	zyabe	Color	toelc

What Is It The answer will differ depending upon the learner.

3 opposite size in column B. Activity 1. Connect the solid in column A with its

**TERSON 5** 

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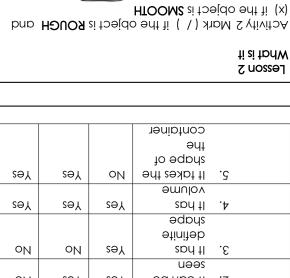
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ΟN **S** A Y 1. It can be Cas Solid Liquid Description the state of matter and No if it is not. matter. Write YES if the description will answer

## Directions: compare the following states of

Additional Activities: ٠.

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it is **talse**. Direction: Write I if the statement is hrue and F if

Answer may vary depending on the

**Assessment Jeanners** 

Mhat I Can Do

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