

Science

Quarter 1 - Module 5A:

Changes in the Properties of the Materials when Exposed to Different Temperatures



Science – Grade 4
Alternative Delivery Mode
Quarter 1 - Module 5A: Changes in the Properties of the Materials when Exposed to
Different Temperature
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Science

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Changes in the Properties of the Materials when Exposed to Different Temperatures

This instructional material was collaboratively developed and reviewed by educators from public schools. We encourage teachers and other education stakeholders to email their feedback, comments, and recommendations to the Department of education at region10@deped.gov.ph.

We value your feedback and recommendations.

What This Module is About

We are happy to share with the Grade 4 pupils like you this module. We have developed this to help you become hands on and minds-on learners. The activities that you are going to do can help you learn essential science concepts and skills through learning by doing. The activities are fun, simple yet will allow you to think critically.

In this module, you will describe what will happen to the materials when heated and when being cooled. Towards the end of the module, you will discover what happen to the solid materials when exposed to the different temperatures.



Notes to the Teacher

Dear Teacher,

This is a self-placed module with various activities to be done at home by the learners. Clear and careful instructions must be given to the learners to ensure safety and avoid misconceptions in performing the activities.



What I Need to Know

One of the joys in learning science is seeing scientific principles operate in all aspects of life. We are surrounded by many things. We call these things **matter**. Matter may be visible or invisible.

In this lesson you may learn more about what happens to the materials when heated or when cooled.

At the end of this module, you will be able to:

1. Define heating.
2. Define cooling
3. Describe what happens to the materials when heated.
4. Describe what happens to the materials when cooled.






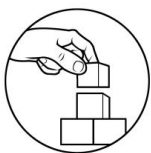




Time duration: 4 days

How to Learn from this Module

To achieve the objectives cited above, you are to do the following:

- Take your time reading the lessons carefully.
- Follow the directions and/or instructions in the activities and exercises diligently.
- Answer all the given tests and exercises.

Icons of this Module

	What I Need to Know	This part contains learning objectives that are set for you to learn as you go along the module.
	What I Know	This is an assessment as to your level of knowledge to the subject matter at hand, meant specifically to gauge prior related knowledge
	What's In	This part connects previous lesson with that of the current one.
	What's New	An introduction of the new lesson through various activities, before it will be presented to you
	What is It	These are discussions of the activities as a way to deepen your discovery and understanding of the concept.
	What's More	These are follow-up activities that are intended for you to practice further in order to master the competencies.
	What I Have Learned	Activities designed to process what you have learned from the lesson
	What I Can Do	These are tasks designed to showcase your skills and knowledge gained, and applied into real-life concerns and situations.
	Post Assessment	This assessment evaluates your level of mastery in achieving the learning objectives
	More Activities	Activities designed to increase the strength of your skills and knowledge gained and tends to induce repetitions of actions / learning



What I Know

Test A.

Directions: Encircle the letter of the correct answer.

1. What will happen to crayons when heated?
A. Melted
B. Remained the same
C. Hardened
D. All of the above
2. The butter/margarine when heated will be _____.
A. melted
B. unchanged
C. hardened
D. None of the above
3. When chocolate is heated, there is a change in _____.
A. size only
B. shape only
C. texture only
D. all forms
4. When butter/margarine is heated, there is a change in _____.
A. size only
B. shape only
C. texture only
D. all forms
5. When crayon is cooled after it is melted, there is a change in _____.
A. size only
B. shape only
C. texture only
D. all forms
6. Vicky left her crayons outside the house the whole afternoon. What will likely happen to the crayons?
A. It will double its size.
B. It will disappear.
C. It will melt.
D. It will harden.
7. Ana brought 2 bars of chocolates to school. When she opened it during recess, the chocolates became soft and sticky. She kept the chocolates back in her lunch bag and placed them in the refrigerator when she arrived home in the afternoon. After a

while, the chocolates hardened. What changes occurred in the chocolates?

A. Solid-liquid

C. Liquid-solid

B. Liquid-gas

D. Gas-liquid

8. When materials like margarine and butter are heated, changes occur. What property/ies of matter has changed?

A. Size, shape and texture.

C. Shape and texture.

B. Size and shape.

D. Shape only.

9. What causes chocolates and crayons to melt?

A. Size, shape and texture

C. Temperature

B. Direction of the wind

D. Freezing

10. Why do butter hardened when placed in a refrigerator?

A. It has been heated

C. It has been fried

B. It has been cooled

D. It has been boiled

Lesson

1

Define Heating

Matter is constantly changing, trees get cut, butter melts, glass breaks and many more. When the butter melts where do they go? It turns into liquid form, that's all about our lesson for today.

The next activity will help you describe the changes in the properties of the materials when they are exposed to different temperature. What do you think will happen to the materials when being heated?

Week 7

Day 1



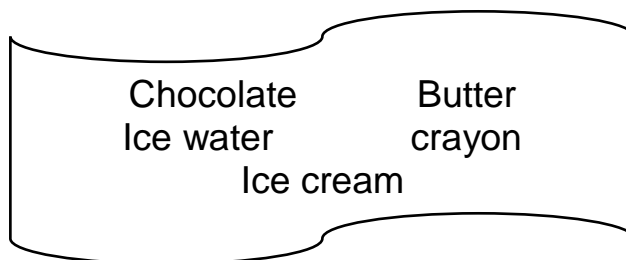
What's In

Heating Time!

Directions: Find the names of the materials that when heated it melts and when cooled will go back to its original form in the puzzle. Choose your answers in the box below.

C	H	O	C	O	L	A	T	E
D	F	S	R	I	G	H	V	I
N	I	T	A	C	A	D	D	C
Y	J	U	Y	E	F	A	E	E
T	K	I	O	W	G	J	K	C
R	L	O	N	A	S	A	C	R
W	R	Y	S	T	T	S	M	E
B	U	T	T	E	R	D	O	A
A	A	K	P	R	D	F	J	M
X	C	L	J	A	K	A	T	U

Word clue:



What's New

Experiment is life!

Directions: In the table below are some common materials. Identify what happens to these materials when heated and after it has cooled down. Fill in the table below and answer the Guide Questions.

Name of Materials	When Heated	When Cooled
Water	Turns to vapor	Returns to its original form
Crayons	Melts	Color remains Size changed
Steel		
Margarine in a pan		

Guide Questions:

1. What happen to the steel when heated?
2. Describe what you observed with the margarine when it was heated in a pan and after it has cooled down.

3. What would be the result after the crayon has been cooled?



What is It

Learning Circuit!

When the materials are heated, they changed their size, shape, and texture. They also changed their forms.

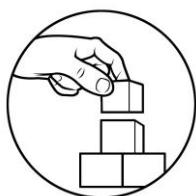
When cooled, the liquid materials were changed to solid.

The materials (crayon/chocolate/butter or margarine) changed its form from solid to liquid when heated. It also changed its size, shape, and texture.

Some materials (crayon/chocolate/butter or margarine) changed back to its form from solid to liquid when cooled. It also changed its size, shape, and texture.

Guide Questions:

1. What happens to the materials when it undergoes heating?
2. How would you describe the crayons after being heated?
3. Why did the chocolate bar change its form when heated?



What's More

Directions: Put a check (/) on activities that involves heating and (x) to those activities that do not.

- _____ 1. Boiling
_____ 2. Cooking
_____ 3. Cooling

- _____ 6. Heating
_____ 7. Ironing clothes
_____ 8. Melting

____ 4. Cutting
____ 5. Freezing

____ 9. Sun exposure
____ 10. Warming

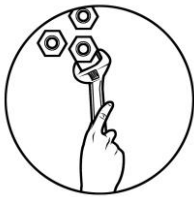


What I Have Learned

Just fill me up!

Directions: Complete the sentence:

Today, _____ I _____ have _____ learned
that _____



What I Can Do

Can you draw me?

- Directions:**
1. Get 2 pieces of a chocolate bar.
 2. Place it under the heat of the sun for 5 minutes.
 3. Observe what happens to the chocolate bar after it has been exposed to the heat of the sun.
 4. After 5 minutes of being exposed to the sun, transfer the chocolate bars inside the refrigerator for 5 minutes.

Draw in the box below the appearance of the chocolate bars **before** they were exposed to the sun and **after** they were exposed to the sun.

Before	After
--------	-------

--	--



Answer Key

What's in
1.Chocolate
2. crayon
3. butter
4. ice water
5. ice cream

What I have learned
Today I have learned that when materials are heated they change the size, shape and texture.

What's New
water- hot turn to vapor - remains the same
Crayons- melts - color remains size changed
Steel - melts –size remains
Butter in a pan- melts- change shape, size

What's more
1. /
2. /
3. /
4. /
5. /
6. /
7. X
8. X
9. X
10. /

What's New
1.the steel melts
2. the butter in the pan melts and change its size
3. when the crayons cooled off the size if the crayon remains the same after it was heated.

Lesson

2

Define Cooling

Matter can change its shape, size, texture, color, and phase. Exposure to heat may change these characteristics of matter. Heat may also change matter into a new substance.

In this lesson, you are going to observe what will happen when the materials are heated. You will also observe what will happen to the materials after they are cooled down.

Week 7

Day 2



What's In

Just be cool!

Directions: Use color red if there is a change in shape, YELLOW if there is a change in size, VIOLET if there is no change and BLACK if there a change in both the size and shape.

1. Candle to melted candle-

2. Chocolate bar to bent chocolate bar-

3. Candle wrapper to torn wrapper-

4. Tin can to hammered tin can-

5. Modelling clay to pressed-

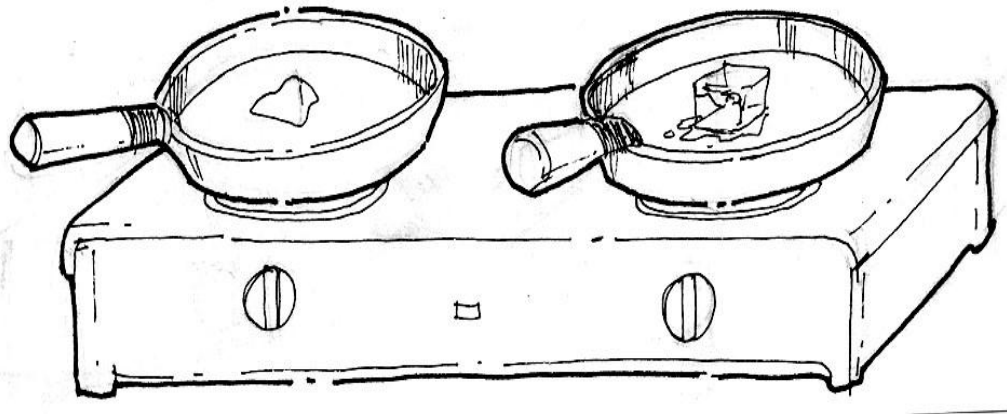


What's New

Explore more!

Directions:

1. Ask an adult (your mother, older sister or older brother) in performing this activity.
2. Prepare two pans. Place the two pans over a stove (or a native wood stove)
3. Slowly put a small piece of floor wax or candle wax in the first pan and put an ice cube in the second pan.
4. Heat both pans over slow fire.
5. Observe what happens.



Answer the following questions. Write your answers in your notebook.

- a. Describe the appearance of the wax and the ice cube at the start of the activity.
- b. What changes happened to the piece of wax and the ice cube after they were exposed to heat?
- c. Why is there a change in the appearance of the wax and the ice cube?



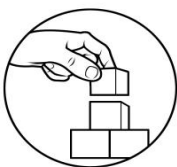
What is It

Learning Circuit!

- When materials are heated, they changed their size, shape, and texture. They also changed their forms. When cooled, the liquid materials were changed to solid.
- Materials like crayons, chocolates, butter or margarine changed its form from solid to liquid when heated. It also change its size, shape, and texture.
- The materials (crayon/chocolate/butter or margarine) change back to its original form from liquid to solid when cooled. But it will no longer return to its original size and shape.
- After heating the materials, the heat evaporates and cools back again.

Can you name five (5) materials that change its size and shape when cooled after being applied with heat?

1. _____
2. _____
3. _____
4. _____
5. _____



What's more

Check me!

Directions: Place a check (/) in the space provided for the material identified if it returns to it's original shape and size after heat is applied. Write (X) if not.

_____ 1. Monoblock Chair

Directions: Which statement is NOT TRUE? If the statement is not true, mark it with **X**, if it is true, draw a ★.

☐

1. All materials change their size, shape and texture when cooled.

☐

2. Chocolate bar changes its form from solid to liquid when heated.

☐

3. Margarine in its liquid form will return to solid when cooled.

☐

4. Some materials when cooled change in size, shape and texture.

☐

5. Some materials when heated change in size, shape and texture.



Answer Key

What's In	1.	Red
	2.	Yellow
	3.	Purple
	4.	Black
	5.	Black

What I can do	1.	Star
	2.	star
	3.	star
	4.	star
	5.	star

What New?
1. The wax is solid and soft. The ice cube is solid and hard.
2. The wax slowly became softer and melted. The wax became liquid. The ice cube melted and became liquid.
3. The heat is responsible for the change of the phase of matter from solid to liquid.

What is it	1.	wax
	2.	ice
	3.	chocolate
	4.	ice cream
	5.	butter

What's more
1./
2. /
3./
4.X
5.X
6./
7./
8.X
9.X
10.X

What I have learned	1.	heated
	2.	size
	3.	shape
	4.	texture
	5.	cooled

Lesson 3

What Happen to the Materials When Heated

Change is happening around us all the time. Matter which is found everywhere also change. Heat causes change in the appearance of matter. Today, we will discover what will happen to matter when heat is applied.

Week 7

Day 3



What's In

Find me!

Directions: Find and encircle the different ways of changing the appearance of solid materials.

A	B	C	S	T	R	E	T	C	H	I	N	G	O
B	D	E	F	G	H	I	J	K	L	M	N	C	P
E	S	T	U	V	W	X	Y	Z	A	B	C	O	Q
N	Q	F	O	L	D	I	N	G	I	F	D	L	R
D	P	O	N	M	L	K	N	J	H	G	E	O	G
I	R	S	T	T	W	I	S	T	I	N	G	R	N
N	W	V	U	P	R	E	S	S	I	N	G	I	I
G	X	Y	Z	A	A	B	C	D	E	F	G	N	T
K	L	M	E	C	R	U	M	P	L	I	N	G	L
C	U	T	T	I	N	G	J	I	H	E	D	A	E
G	N	I	R	E	M	M	A	H	G	F	C	B	M

crumpling	melting
stretching	Bending
folding	coloring
twisting	pressing
cutting	



What's New

Try me!

Today, we are going to perform an activity to observe how heat changes the appearance of matter. Study the procedure very well and prepare all the needed materials before you work on this. You may conduct this activity outside your house or in any safe place. For your own safety, ask an adult to assist you in conducting this activity.

For the materials, you need prepare the following:

- 2 pcs of crayon
- 2 pcs. of chocolate bar
- 2 Teaspoons of butter or margarine
- 3 pcs clean tin cans (empty cans of sardines or corned beef, meat loaf, etc.)
- gasera or candle (alcohol lamp if available)
- match
- kitchen gloves or a piece of thick cloth

Directions:

1. Prepare all the materials needed for the activity.
2. Mark the each tin can A, B and C.
3. Place the following materials in the tin cans:
 - tin can A - 2 pieces of crayon
 - tin can B – 2 bars of chocolate

- tin can C – 2 teaspoons of butter or margarine
4. Light the gasera (if using a candle, let it stand on the floor firmly)
 5. Hold tin can A with a thick cloth and place it over the fire until the crayons melt.
 6. Repeat the same procedure for tin can B and tin can C.
 7. Put off the flame of the gasera or the candle.
 8. Record your observations in the table provided below.
 9. Allow the materials in the tin cans to cool off before disposing them properly.

Materials	Observations	
	Before Heat is Applied	When Heat was Applied
2 pieces of crayons		
2 pieces of chocolate bars		
2 teaspoons of butter/ margarine		

Note to the learner:

Dispose and return all materials from where you got them properly after the activity and clean the area you worked on.



What is It

Learning Circuit!

Heat changes the appearance of matter. When heated, matter changed in size, shape, and texture. It also changed in forms.

In some solid materials, heat changed them into liquid form. This also changes the size, shape, and texture of matter.

Answer the Guide Questions:

1. What happens to each material (crayon/chocolate bar/ butter or margarine) when they were heated? Why?
2. Is there a change in the appearance of the materials? What change took place?
3. What happens to the materials when heated? How would you describe it?
4. Is there a change in the appearance of the materials
5. How would you describe the changes that took place?



What's More

Let's do this!

Directions: Write your answer on the right column.

Identify what properties of materials are changed when heated?

Materials	Type of Change (size, shape)
Bar of chocolates	
Pieces of crayons	
Spoonful of butter/margarine	
Lard	
Lipstick	



What I Have Learned

Draw me up!

Direction: Draw or illustrate your observations during the activity on applying heat on a matter.

Materials	Before Heat was Applied	When Heat was Applied

crayons		
chocolate bars		
butter/ margarine		



What I Can Do

Directions: Box the correct word that will make the statement complete. Write your answer in your Science notebook.

1. Butter when place in a hot pan will become (solid, liquid, gas).
2. Lard when place on top of a hot pan will change in (shape, smell, sound).
3. Crayon when heated will become (soft, hard, liquid)
4. The butter will (harden, melt, remain the same.) when put under the heat of the sun.
5. Juice when placed inside the freezer will become (solid, liquid)



Answer Key

What's in
1. Stretching
2. folding
3. bending
4. pressing
5. melting
6. cutting
7. twisting
8. crumpling
9. coloring

What I have learned

What's new	Before	During	
1. crayon	Solid with form	melt	
2. chocolate	Solid with form	melt	
3. butter	Solid with form	melt	

What I can do
1. liquid
2. shape
3. liquid
4. melt
5. solid

What is it
1. The chocolate bar/butter and crayons melts/ change into liquid
2. Yes, there is a change in the appearance of the materials. It change the forms.
3. the materials when heated, it change the size, shape and its form.
4. when heated solid materials change into liquid
5. the materials change its form, size shape or even the texture.

Lesson 4

Describe What will Happen to the Materials when Cooled

Cooling and Freezing are two of the processes that matter undergo. In previous lessons, you learned that when materials are heated, they changed in their size, shape and texture.

In this lesson, you are going to find out what will happen to the material that have been heated after cooling down.

Good luck and have fun!

Week 7

Day 4



What's In

Answer me!

Directions: Answer the following questions. Write on your answer Sheet/Science notebook.

1. What happen to the crayons when directly exposed to the The heat coming from the gasera/candle??
2. Describe the crayon after it has cooled down.



What's New

Let's cool down!

Directions: What properties of materials are changed when cooled? Write your answer on the right column.

Materials when cooled	Changes happens
Ex. Bar of chocolates	Size, shape
1. Pieces of crayons	
2. Teaspoonful of margarine	
3. Lipstick	
4. Candles	

Answer the following questions based on your observations when you performed the previous activity (Heating the crayons, chocolate bars and teaspoonful of margarine). Copy the questions and write your answer in your Science notebook.

1. What happened to the materials when they cooled down after exposure to heat?
2. Was there a change in the appearance of the material after they cooled down? What change took place?
3. How would you describe the change/s that happened to the material after they cooled down?



What is It

Learning Circuit!

- When the materials are heated, they changed their size, shape, and texture. They also changed their forms. When cooled, the liquid materials were changed to solid.

- The materials (crayon/chocolate/butter or margarine) changed its form from solid to liquid when heated. It also changed its size, shape, and texture.
- The materials (crayon/chocolate/butter or margarine) changed back to its form from solid to liquid when cooled. It also changed its size, shape, and texture


Questions:

1. When the materials (crayons, chocolate, butter or margarine) were heated, they became liquid. After cooling off, what changes took place with the materials?
2. Describe the size and the shape of the materials after cooling down.
3. What characteristics of the materials changed after they cool down?
4. What characteristic/s of the materials did not change?



What's More

Heart Me!

Directions: Which statement is not true? If the statement is not true, mark it as **X**, if it is true, draw a 

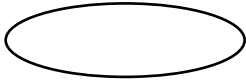
1. All materials change their size, shape and texture when heated.



2. Butter changes its form from solid to liquid when heated.



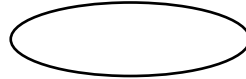
3. Butter in its liquid form will return to solid when cooled.



4. After being heated, some materials change in size, shape and texture when cooled.



5. Some materials change in size, shape and texture when heated.

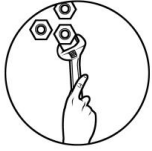


What I Have Learned

Just complete me!

Directions: Complete the statement below.

Today I have learned that _____



What I Can Do

Can you answer me!

Directions: Encircle the correct word that will make the statement complete.

1. Water when place inside the freezer will become (solid, liquid, gas).
2. Lard will change in (shape, smell, sound) when place in a hot pan.
3. When cooled, melted crayon will become (soft, hard, gas)
4. The butter will (harden, melt, remain the same) when in the hot pan.
5. When placed inside the freezer, soft drinks will become (solid, liquid, gas)



Answer Key

What's in
1. Crayons melts
2. the crayon when cooled it will change back to solids.

What's new
1. crayon- size, shape
2. Butter- change its form
3. Lipstick- it will melts
4. candle- spine

What's new :question
1. Become solid. Change in shape
2. Became flat, thin but solid. Change in shape
3. Change back to its form. Return to solid
4. yes there is a change
5. it will change back to its form from solid to liquid

What's More
1. X
2. heart
3. heart
4. heart
5. heart

What I can do
1. solid
2. shape
3. hard
4 melt
5. solid

What is it
1. it will form back into solid, became flat
2. yes. Size and shape changed
3. the size, shape and texture
4. its color

What I have learned
Today I have learned that when materials is being cooled it will return to its form which is solid form.



Post Assessment

Directions: Encircle the letter of the correct answer.

1. The butter/margarine when heated will be.
A. Melted
B. Hardened
C. Remain the same.
D. All of the above
2. When the chocolate was heated, there was a change in.
A. Size only
B. Shape only
C. Texture only
D. All forms.
3. When the butter/margarine was heated, there was a change in
A. Size only
B. shape only
C. Texture only
D. All forms
4. When the crayons where cooled after it has melted, there was a change in_____.
A. Size only
B. Shape
C. Texture only
D. All forms
5. Vicky had her art class and left her crayons outside the house the whole afternoon. What is likely to happen to the crayons?
A. It will double its size
B. It will disappear
C. It will melt
D. It will remain the same
6. What causes chocolates and crayons to melt?
A. Size, shape and texture
B. Direction of the wind
C. Temperature
D. All of the above
7. Why do butter harden when placed in a refrigerator?
A. It has been heated
B. it has been cooled
C. It has been fried
D. It has been boiled

8. Ana brought 2 bars of chocolates to school. When she opened it during recess, the chocolates became soft and sticky. She kept the chocolates back in her lunch bag and placed them in the refrigerator when she arrived home in the afternoon. After a while, the chocolates hardened. What changes occurred in the chocolates?
- A. Solid-liquid C. Liquid- gas
B. Liquid-gas D. Liquid-solid
9. When materials like margarine and butter are heated changes occur. What property/ies of matter has changed?
- A. Size, shape and texture C. shape and texture
B. size and shape D. none of the above
10. What causes chocolates and crayons to melt?
- A. Size, shape and texture C. Shape and texture
B. Direction of the wind D. Temperature



Additional Activities

Activity 1

Write TRUE if the statement is correct, write FALSE if not.

- _____ 1. When the margarine is being heated it will melt.
- _____ 2. The crayon exposed to the flame will change its shape and size.
- _____ 3. When the materials are being heated, they change their size, shape and texture.
- _____ 4. When the chocolate bars are heated it change into liquid but when cooled it will remain the same.
- _____ 5. The crayons that are being heated it will melt, when cooled it will change back into solid.

Activity 2

Put check (/) in the appropriate column if the word is heating (X) if it is cooling.

Materials	Heating	Cooling
Freezing an ice cream		
Melting a crayon		
Freezing a water		
Heating a butter		
Cooked rice		



Answer Key

Pre test
1.a
2. b
3. c
4. d
5. d
6. c
7. c
8. a
9. a
10. b

Post test
1. A
2. B
3. D
4. D
5. C
6. a
7. B
8. C
9. A
10. A

Additional Activity
1. True
2. true
3. true
4. false
5. true
6. /
7. X
8. X
9. /
10. /

References:

Abutay, L R, D. C Bonao, E B. Crucis, et al (2015) Science- Grade 4 Learner's Materials, Lexicon Press. Inc.

Abutay, L R, D. C Bonao, E B. Crucis, et al (2015) Science- Grade 4 Teacher Guide, Lexicon Press. Inc.

Detailed Lesson Plan, Division of Valencia City (2019)

Lumidao K. C. (2019) Science Guide 4 Workbook.

Name: _____ Grade&Section: _____ Score: _____

QUARTER 1 - MODULE 5A

Lesson 1

Define Heating

Answer Sheet

<i>What I know</i>
1.
2.
3.
4.
5.
6.
7.
8.
9.
10.

<i>What I Have Learned</i>
1.
2.
3.
4.
5.

What's In

C	H	O	C	O	L	A	T	E
D	F	S	R	I	G	H	V	I
N	I	T	A	C	A	D	D	C
Y	J	U	Y	E	F	A	E	E
T	K	I	O	W	G	J	K	C
R	L	O	N	A	S	A	C	R
W	R	Y	S	T	T	S	M	E
B	U	T	T	E	R	D	O	A
A	A	K	P	R	D	F	J	M
X	C	L	J	A	K	A	T	U

What's New

Name of Materials	When Heated	When Cooled
Water	Turns to vapor	Returns to its original
Crayons	Melts	Color remains Size changed
Steel		
Margarine in a pan		

<i>What's New</i>
1.
2.
3.

<i>What is it</i>
1.
2.
3.

<i>What's more</i>
1.
2.
3.
4.
5.
6.
7.
8.
9
10

<i>What I have Learned</i>
1.

<i>What I can do</i>	
Before	After

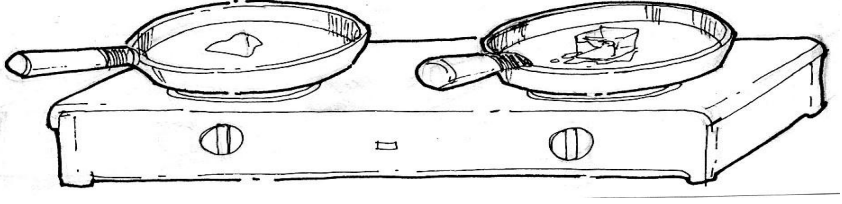
Name: _____ Grade & Section: _____ Score: _____

Lesson 2

Define Cooling

Answer Sheet

What's In
1.
2.
3.
4.
5.

What' New

1.
2.
3.

What is It
1.
2.
3.
4.
5.

What is It
1.
2.

What's more
1.
2.
3.
4.
5.
6.
7.
8.
9.
10.

What I have Learned

What I can Do
1
2
3
4
5

What's new
1.
2.
3.
4.
5.

Name: _____ Grade & Section: _____ Score: _____

Lesson 3

What Happen to the Materials When Heated

Answer Sheet

What's New

A	B	C	S	T	R	E	T	C	H	I	N	G	O
B	D	E	F	G	H	I	J	K	L	M	N	C	P
E	S	T	U	V	W	X	Y	Z	A	B	C	O	Q
N	Q	F	O	L	D	I	N	G	I	F	D	L	R
D	P	O	N	M	L	K	N	J	H	G	E	O	G
I	R	S	T	T	W	I	S	T	I	N	G	R	N
N	W	V	U	P	R	E	S	S	I	N	G	I	I
G	X	Y	Z	A	A	B	C	D	E	F	G	N	T
K	L	M	E	C	R	U	M	P	L	I	N	G	L
C	U	T	T	I	N	G	J	I	H	E	D	A	E
G	N	I	R	E	M	M	A	H	G	F	C	B	M

What's new	Before	During
1.		
2.		
3.		

What I have learned

What is it
1.
2.
3.
4.
5.

What I can do
1.
2.
3.
4.
5.

Name: _____ Grade & Section: _____ Score: _____

Lesson 4

What Happen to the Materials When Heated

Answer Sheet

What's in
1.
2.

What is it
1.
2.
3.
4.

What's new
1.
2.
3.
4.

What I have learned

What's new
1.
2.
3.
4.
5.

What I can do
1.
2.
3.
4.
5.

What's More
1.
2.
3.
4.
5.

Name: _____ Grade & Section: _____ Score: _____

Answer Sheet

Post Assessment
1.
2.
3.
4.
5.
6.
7.
8.
9.
10.

ADDITIONAL ACTIVITIES <i>Exercise 1</i>
1.
2.
3.
4.
5.

<i>Exercise 2</i>
1.
2.
3.
4.
5.

For inquiries and feedback, please write or call:

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