

7th Grade Science

Unit: Matter and Periodic Table Lesson: Matter 4 — Chemical and Physical Changes Part 2

Name:
Date: Thursday, December 1, 2016
Hamanana.

OBJECTIVES: By the end of class, students will be able to...

SWBAT identify and describe physical and chemical changes of matter.

DO NOW

Agenda:

- 1. Do Now (in packet)
- 2. Opening
- 3. Notes (in packet and notebook)
- 4. Guided Practice (in packet)
- 5. Independent practice (in packet)
- 6. Homework Overview
- 7. Closing

Homework: Matter 4 – Chemical and Physical Change

Fill the in the chart below.

Situation	Physical or Chemical Change? Why?
Bread turns black after	
being the toaster too	
long.	
Water condenses outside	
of a glass of ice tea.	
Green leaves turn yellow,	
red and orange in the	
fall.	
Green bananas turn	
yellow.	
Yellow bananas turn	
brown.	
(Create your own	
situation)	
	1

Physical and Chemical Changes Notes

Matter is anything that has and
All matter is made up of tiny particles called
These tiny particles can join together to form
Different substances are made up of different types of and
·································
Achange is one that changes the way a substance looks , but it does not change way the atoms and molecules of the substance are connected.
Achange is one that changes the way the atoms and molecules
are connected and creates a substance.

Water (H_2O) is H_2O NO MATTER if it's in gas form, liquid form, or solid form.



Physical Changes:

Physical change: A change thatbe made.	cause a new piece of matter to
A piece of matter is going through a phy happen:	vsical change if any of the following things
The piece of matter changes	or
Examples:	
0	
0	
The substance	in a liquid.
Examples:	
0	
0	
The substance changes from a	oneto another.
Examples:	
0	
0	
A physical change is usually a change the	nat <u>CAN</u> be, or reversed.
(There are some exceptions to this rule!!!	!)
Chemical Changes:	
Chemical change: A change that to be made.	cause a new piece of matter
A piece of matter is going through a che happen:	emical change if any of the following things
The substance	·
Examples:	
0	
0	
The substance changes	on its own (without something
else heating or cooling it).	
Example:	
0	

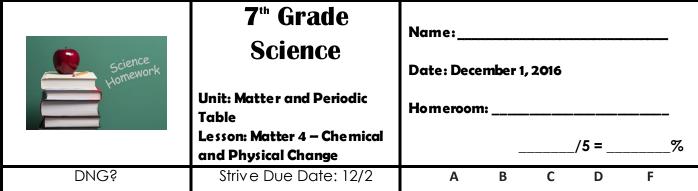
	The substance cha	inges to an "unex	pected"	·
	The substance make	(es	(usually after tv	wo substances have
	combined).			
	Example:			
	0			
A che	emical change is a char	nge that CANNO 1	be	, or reversed.
NOTE:	If a funny	is produced, t	his is often a sign tho	ıt a chemical change
has to	aken place!!			
Explai	ice: Write whether each n why you chose your c PLETE SENTENCES.			
1.	Melting ice:			
2.	Baking cookies:			
3.	Breaking glass:			
4.	Melting wax:			

5. Burning a candle	\sim ·
.) DUILING CLC CILICI	_

Write Physical Change or Chemical Change next to the picture. **Explain** your answer.

	or Chemical Change next to the picture. Explain your answer.
Making toast	
A light bulb getting hot	
Adding sugar to a cup of tea	
Food going moldy	
Setting off a firework	
Diluting orange juice with water	

1	Law of conservation of mass/matter states:
'•	
2.	Matter is made up of tiny particles called
3.	Different atoms grouped together form
4.	Properties describe matter. What are two ways physical properties can describ
	matter? The use of your 5 and
	(quantitative and qualitative).
5.	What are words to look for when describing chemical properties?
6.	What is the difference between chemical and physical changes?
7.	Think back to a recent lunch or dinner. Describe in words two physical and two
	chemical changes that were involved in preparing and/or consuming the meal
	Use complete sentences and be specific in your explanation of the change.



1.	Label	each process as a physical or chemical change:
	a.	perfume evaporating on your skin
	b.	butter melting
	C.	wood rotting
	d.	charcoal heating a grill
	e.	autumn leaves changing color
	f.	a hot glass cracking when placed in cold water
	g.	melting copper metal
	h.	burning sugar
	i.	mixing sugar in water
	j.	digesting food
2.	a. fr b. n c. b d. b	of the following would NOT be a physical change? reezing water to make ice cubes nelting gold to make jewelry rurning gasoline in a lawnmower rooiling water for soup earing a piece of aluminum foil
3.	a. g b. n c. fe	of the following is NOT a physical change? grating cheese nelting cheese ermenting of cheese nixing two cheeses in a bowl
4.		are physical and which are chemical changes? Write Physical or Chemical on the line.
	b.b	ourn (combustion)
	c. c	condense
	d. r	ust
	е. с	rumple
	f. fe	erment
	a n	

h. freeze _____