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Changes Chemical and Physical about Worksheet الملف

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Lesson 22-Physical Changes and Properties

KEY TERMS

matter
physical change
physical property
property

OBJECTIVES

Define matter

Identify examples of physical changes

Matter is anything that takes up space and has mass. There

are three (3) states of matter. They are solid, liquid and gas. All substances have certain characteristics called properties. Properties can be physical or chemical. A physical property is a feature that can be observed or measured without changing the substance or any of the materials it is made up of. Physical properties that can be observed are color, shape, size, luster and texture. Physical properties that can be measured are density, heat, length, width and thickness. Some physical properties such as melting point, boiling point and color do not change. When we change the physical properties of a substance, this is called a physical change.

Examples of physical changes include sharpening a pencil, grating coconut, cutting paper and melting wax.

Although change took place, the properties of each substance remained the same.

Here are some examples of physical changes:



Teering paper



Chapping Wood



Cuttino a Carrot



Breaking glass

Popping a Balloon Mi



Mixing Candy



Sharpening a Pencil

If you tear, chop, cut, break, pop, mix or sharpen in the examples above, it is a physical change. These changes will not result in a new substance.

Lesson 23-Chemical Changes and Properties

KEY TERMS

antioxidants

chemical change

combustion

corrosion

decomposition

OBJECTIVE

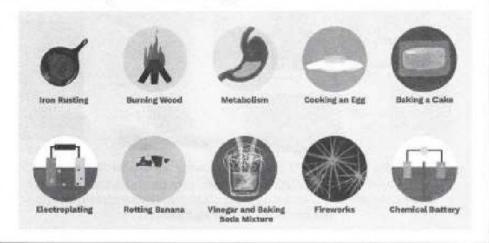
Tell the difference between physical and chemical changes

Chemical properties describe how particles are rearranged when one substance reacts with another substance. When two substances react and a new substance is produced, which is

unlike either of the original substances used, a chemical change has taken place. A new substance is formed during chemical change. Some substances react quickly while others react slowly.

Combustion or burning and decomposition or rotting are types of chemical changes. Some chemical changes give off energy; E.g. burning coal releases heat and light energy. Some changes require the addition of heat energy. Examples of these are the chemical changes that cause food to spoil or iron to rust. Naturally occurring chemical changes can be harmful. To avoid the effects of naturally occurring chemical changes, we can resort to freezing or drying to preserve food. Tools can be kept well oiled to prevent rusting. Rusting takes place when chemicals react with oxygen. Substances that prevent corrosion or rusting are called antioxidants.

Here are some examples of chemical changes:



Physical & Chem	ical Changes and Pro	operties-Assessment 1
Name:	Dat	e:
Read and answer the follow	ing questions correctly.	
1. What is matter?		[1
요즘 경험 입사를 하면 없이 있다면 하셨다면 하는 것이 있다는 생각하다.	ow. Say whether each picture your answer on the lines pro	
a. broken mug	b. wood burning	c. rotting apple
3(a) Max shredded a docu	ment. What type of change is	this? [1]
3(b) What is another example	e of the type of change mentio	ned in 3(a) ? [1]

in the LETTER ne	xt to the correct answer.		[1]
(A) color	(B) density	(C) heat	(D) width
5(a) Sara threw a s	tack of papers into a fire	e. What new form of matt	er is produced after
the paper is b	urned?		[1
		esult of a physical change	or chemical [1
change? Circl	le the correct answer.		[1
physical o	change	chemical change	е
6. Which one of th	e following substances p	revents corrosion? Shade	in the LETTER next
to the correct a	nswer.		[1]
(A) antibiotics	(B) antidote	(C) antioxidants	(D) antiseptic
7 On the way to sr	haal Peter saw a decayin	ng banana. Give ONE way	in which the banan
	nysically and one way it h		[2
	PHYSICALLY	CHEMICA	LLY

Physical & Chemical Changes and Properties-Assessment 2 Date: The pictures below show physical and chemical changes in matter. Use the pictures to answer the following questions correctly. fried egg broken pencil 1. Write the description of the picture that represents an example of the following. [1] a. a physical change in matter b. a chemical change in matter ___ [1] 2(a) Look at the picture below. Explain what is happening in the picture. [1] 2(b) What type of change is happening in this picture above? [1]

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_	
nysical Change or Chen	
	[4
_	
_	
ect.	[1
	ect.