Intervention 8.1.2

Name: _____

Physical and Chemical Properties

Elements, substances, and compounds have both physical and chemical properties. Physical properties are those that can be described using the senses and can be determined without destroying the object. Color, mass, density, and odor are examples of physical properties. Chemical properties describe how a substance reacts with another substance and the original is changed into something else. Classify each term in the word box as a physical or chemical property.

ability to rust combustable boiling point reacts to form an acid reacts with water to form a gas density taste reacts with vinegar color reacts with baking powder flammable melting point shine reacts with oxugen

corrodes dissolves in water odor hardness 26

Physical Property	Chemical Property
	_ *
-	
1 24	_
	Α



Using the picture to the left, list 3 physical properties and 3 chemical properties of any of the items. (Items in the picture include: baking soda, flour, milk, butter, sugar, eggs, rolling pin).

Physical Properties:

Chemical Properties:

2.

3.

2.

1.

3.

You will use the 8th grade science online text book to complete the guided reading below:

What is I	Matter?
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An apple, steel cable	-	-			=		
				The on			
aren't matter are forn							
		=	=	t is matter? Matter is			
anything that has				in a subst	ance or object.		
The amount of	matter tak	kes up is its volume	э.				
Properties of Matte	r						
	Look at the pic	cture of the Statue	of Liberty. Descri	be it in as many ways	s as possible.		
5				; they are the			
	of matter. If you were to describe an object to						
	someone who cannot see the object you would describe the object's properties. Below						
	is a list of som	e properties you c	ould use to descr	ibe			
				e	-		
		•		al found on Earth and	d can scratch		
most everythir	ng else. Talc is t	he softest mineral;	it can be scratch	ed by a fingernail.			
• State of matter: W	hether it is a		, or				
 Melting and boiling 	a point: This is t	the	at which a su	ubstance goes from a	solid to a liquid		
_				and lower freezing p	· ·		
_				ner or overheating in h			
		·		_			
				_ electricity and othe			
	and	are good cond	uctors,	and	_ are not.		
 Ability to dissolve not dissolve in wa 			inces	and others do	not. Sand does		
• Density: How	pac	cked the atoms of i	matter are. A solic	d rock is more dense	than water and		
will sink while woo	od is less dense	than water and wi	ll float.				
Flammability: The	ability of matter	r to	Wood is flammab	ole; iron is not. When	wood burns it		
				er burning, it is no lon			
 Reactivity: The ab 	ility of matter to	·		with other substa	ances. Iron is		
				n powder called rust f			
		ubstance that cons		-			
 Malleability: The a 	bility of a solid t	to or be		into other shapes wit	thout breaking.		
		5: 25 _					
 Other properties in 	nclude			_	etc		