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Date: _	

The Properties of Matter

Review of Terms and Concepts Worksheet

FILI	LIN THE BLANKS Fill in the blanks with the terms/words that complete each statement.
a)	A property is characteristic of matter that can be or measured changing the identity of the substance. Meanwhile, a chemical property is one that is observed when a substance with another substance resulting in a to the identity of that substance.
b)	When you look at a lawn, you can tell that the grass is green and not red (unless you are color blind). In this case you are noticing the property of in the grass. You can also detect how much light can pass through the object, and this physical property is called If an object, like a ceramic mug, does not allow any light through it, then
	it is called If an object only lets some light through it, like a stained glass window would, then the object is called If an object lets all of the light
	pass through it, like a clean window would, then the object is called Another physical property you can determine about an object while looking at it is how much light reflects off of its surface, and this physical property is called, otherwise known as shininess. Substances like liquid mercury are very, but substances like rubber are very
c)	When you touch an object, you can get information about two other physical properties. You
	can see how easy it is to scratch or dent the object, and this property is called
	The substance that is the most difficult to scratch in the world are Another physical property you can determine by touching the object is
	how the surface of the object feels, and this property is called Substances
	like fur are, spoons are, and sandpaper is
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d)	Many metals have physical properties in common. For example, is a physical property many metals have because they can be hammered into thin sheets. A good
	example of a metal that is malleable is Many metals also share the
	physical property of which means that they can be shaped into a thin wire.
	The most common metal that is used to create wiring is As well, many
	metals share the physical property of because they are able to
	allow electricity to flow easily through them. An example of a good conductor is
	and an example of a bad conductor is Many metals
	are also because they attract magnets.
e)	When dealing with liquids, one physical property that is easy to observe is
	which you can observe by trying to pour the liquid out of its container is
	simply how easy it is for a liquid to flow depending on its thickness. Substances like mud have a
	higher than substances like shampoo. As well, some liquids can dissolve
	solids and some liquids can dissolve into other liquid. This ability of a substance to dissolve into
	another substance is called Water and oil are a famous pair that do not dissolve well in one another so they are considered Water and sand are
	also Water and vinegar however can easily dissolve into one another so
	they are considered Water and sugar are also

f)	is the physical property that measures the amount of of a substance in a given volume of that substance. Substances that are less dense will on top of a liquid that is more dense. Substances that are more dense will in a liquid that is less dense.	
g)	The particles of some solids bond in such a way as to form specific geometrical shapes when viewed under a microscope. This is the physical property of	
h)	One chemical property involves the ability of a substance to burn and this is called Sand is not while paper is easily Another chemical property is reactivity with Some substances react to the presence of water by forming new compounds and releasing a lot of energy. Elements like, an element in group 1 of the periodic table, react in this way.	

2. <u>MATCHING</u> Match the following definitions of properties with the correct name of the property. Each property may be used once, more than once, or not at all.

boiling point crystal form melting point state of matter hardness clarity density luster odor taste color ductility reactivity with water magnetism texture combustibility electrical conductivity malleability solubility viscosity

Property	Definition
	 The property of a solid that is the measure of its resistance to being scratched or dented.
	2. The ability of an object to reflect light.
	3. The ability of a substance to be stretched into a long wire-like shape.
	4. The property of a substance that activates the sense of smell.
	5. The ability to burn.
	6. The ability of an object to be hammered into a sheet.
	7. Whether it is found in a liquid, solid or gas.
	8. The ability of a substance to react with H_2O .
	9. The amount of light that can pass through the object.
	10. The specific amount of mass found in a given volume of a substance.
	11. The temperature at which the substance turns from a liquid into a gas.
	12. The geometrical structures of a substance produced by the arrangement of bonds in a solid substance.
	13. The tactile quality of the surface of an object.
	14. The ability to dissolve in a liquid.
	15. The ability to pass an electrical current through a substance.
	16. The flavour of a substance as experienced by the taste buds.
	17. The wavelength of light that is reflected by an object and perceived by the eyes as either red, green, yellow etc.
	18. This property describes how well a liquid can flow.
	19. The temperature at which the substance turns from a solid to a liquid.
	20. The attraction of a substance to a magnetic field.

3. <u>MATCHING</u> For each description below identify the property that is being described and indicate whether it is a physical property (PP) or a chemical property (CP) being described. Use the list of properties below for reference. Each property can be used once, more than once, or not at all.

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Property	Description	PP or CP?
	Your fridge door can hold magnets but your bathroom door cannot.	
	2. A piece of chalk breaks if you try to bend it.	
	3. Salt is made of tiny cubes.	
	4. Water turns to steam at 100°C.	
	5. The chrome fenders of vintage cars are very shiny.	
	6. A diamond can scratch glass.	
	7. Vinegar has a fixed volume and takes up the shape of its container.	
	8. Sugar cubes disappear after you stir them into your tea.	
	9. Sandpaper feels rough when you touch it.	
	10. You can see through olive oil.	
	11. Air can fill a football as well as a bike tire.	
	12. Sugar disappears when you mix it with coffee.	
	13. Gold is used for wiring in circuits in a spacecraft.	
	14. Sodium catches fire when placed in water.	
	15. Molasses pours very slowly.	
	16. Chocolate is delicious.	
	17. Copper can be hammered into many different shapes.	
	18. Mercury metal is a liquid above - 39°C.	
	19. Paper catches fire at 235°C.	
	20. Sulphur smells like rotten eggs.	
	21. Water sloshes around easily in a bucket.	
	22. A steel feather is much heaver than an ordinary feather.	
	23. Vegetable oil is yellow.	
	24. Baking soda is a very fine powder.	
	25. Rubber coating on metal wires can prevent shocks.	
	26. Oil cannot dissolve in lemon juice.	
	It takes a long time for corn syrup to pour out of its container.	
	28. Butter melts at 20°C.	
	29. One bottle of wine can fill three wine glasses.	

 30. You can remove oil paint from your hands using turpentine, but not water.