Name		Class	Data		
<u>_</u>	Worksheet)	Class	Date		
	ected Reading B				
b. physical property	on: Physical Properties FYING PHYSICAL PROPERTIES 1. A characteristic of matter the changing the identity of the a. matter property. b. physical property. c. chemical property. d. volume property. d. volume property. 2. Some examples of physical a. color, odor, and reactivity b. color, odor, and speed. c. color, odor, and mass. d. color, odor, and anger.	nat can be obs matter is a properties ar			
	the correct example with the conce provided.	rect physical	property. Write the letter in		
d. malleability	3. Aluminum can be flattened of foil.	into sheets	a. stateb. solubility		
a. change of state	4. Water is frozen into ice.		c. thermal conductivity		
f. ductility_	5. Copper can be pulled into the	hin wires.	d. malleability e. odor		
c. thermal conductivity	6. Your hand grows warm from cup of hot liquid.	n holding a	f. ductility g. density		
b. solubility	b. solubility 7. Flavored drink mix dissolves in water		• ·		
e. odor 8. An onion gives off a very distinctive smell.					
g. density 9. A golf ball has more mass than a table tennis ball.					
10. Der	nsity is the <mark>physical property</mark> ween mass and volume.	that des	scribes the relationship		

12. What is the equation for density?

11. The amount of matter in a given space, or volume, is called

D=m/v, density = mass / volume

<mark>density</mark>

Nan	me Date					
Directed Reading B continued						
13.	What do D , V , and m stand for in the equation for density?					
14.	The units for density consist of a mass unit divided by a(n) volume unit.					
15.	object (container) increase mass with fixed volume = increased density object (container) if you increase the amount if you increase the amount increase mass with fixed volume = increased density					
16.	5. What are two reasons why density is a useful physical property for identifying substances?					
	Especially in metals, the space between atoms is uniform, (constant) therefore the amount of matter in a fixed space is constant. This means it has a unique or characteristic density. (tip: Don't buy gold jewelry that is low density)					
17. Why would 1 kilogram of lead be less awkward to carry around than 1 kilogram of feathers?						
	They are both equally heavy, but it would be easier to put your arms around the lead since the density is higher, the volume must be smaller.					
18. What will happen to a solid object made from matter with a greater density than water when it is dropped into water? Greater than water density objects will SINK in water.						
19. How will knowing the density of a substance help you determine whether an object made from that material will float in water?						
	Compare the substances density to water. If the density is higher than water it will sink. If it is lower than water it will float.					
20.	If you pour different liquids into a graduated cylinder, the liquids will form layers based upon differences in theirdensity and solubility					

Name	Class	Date
Directed Reading B continued		
21. If you pour different liquids in will settle on the bottom? The most dense liquid.	to a graduated cylin	der, which layer of liquid
22. If you pour different liquids in liquid with the lowest density At the top.	-	der, where will the layer of
PHYSICAL CHANGES: NO NEW S	SUBSTANCES	
23. A change that affects only the		of a substance is
known as a(n) _ <mark>physical change /</mark> 24. What kind of changes are char		s melting and freezing?
butter melting, water boiling (vaporizing dry ice sublimation (from solid to gas	ing)	
Identify which of the following act in the space provided. Put an <i>X</i> be	· · · ·	0 ,
_ <mark>PC</mark> _ 25. sanding a piece of woo	od	
X, because of gas production 26. baking bread		
<mark>PC</mark> _ 27. crushing an aluminum	can	
_ <mark>PC</mark> _ 28. melting an ice cube		
_ <mark>PC</mark> _ 29. dissolving sugar in wat	eer	
_ <mark>PC</mark> _ 30. molding a piece of silve	er	
31. When a substance undergoes a does not change.	a physical change, it	S _ chemical properties
32. What is changed when matter to explain your answer.	undergoes a physica	al change? Give an example
 The shape, or state (like melting) and the distribution of the particles, (like sanding down or dissolving in with air). 	water or vaporizing into	