Name	Class Date
Skills Worksheet	
<b>Directed Reading</b>	<b>.</b> Δ
Directed Redding	, , ,
Section: Chemical Prop	perties (nn en-es)
IDENTIFYING CHEMICAL PRO	100 0
Use the terms from the following	g list to complete the sentences below.
flammability	nonflammability
reactivity	chemical property
1. A property of matter that de	scribes its ability to change into entirely
new substances is called a(1	n)
2. The ability of substances to	change and form one or more new
substances is a chemical pro	perty called
3. The ability of a substance to	burn is a chemical property
known as	
	The second of the second of
4. Something that cannot burn	has the property of
comparing Physical and Chemica	l Properties
Vrite the letter of the correct ans	swer in the space provided.
5 Which of the followin	g sets of words describes only physical proper-
ties of a material?	g sets of words describes only physical proper
<b>a.</b> liquid, dense, flam	mable
<b>b.</b> solid, ductile, yello	
c. flammable, malleal	
<b>d.</b> powdery, reactive,	
6. What chemical proper	rty causes rust to form on a nail?
a. conductivity	To the second se
<b>b.</b> nonflammability	
c. reactivity with oxy	den
<b>d.</b> flammability	Sch
7. What do physical char	ngos NOT chango?
<b>a.</b> the identity of the	
<b>b.</b> the amount of mat	
<b>c.</b> the state of matter	.ei
_	1
<b>d.</b> the volume of the s	ample
8. What makes chemical	properties hard to observe?
<ol><li>They cause change</li></ol>	
<b>b.</b> You can't see them	until they produce new materials.
<b>c.</b> Wearing protective	
<b>d.</b> They happen too q	ıickly.
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Name	Class	Date
Directed Reading A continued		
Characteristic Properties		
9. Which of these statements is	true about cha	aracteristic properties of
substances?		-
<b>a.</b> They depend on sample si		
<b>b.</b> They can only be physical		
c. They can only be chemica		
<b>d.</b> They can be physical prop	perties or chem	nical properties.
CHEMICAL CHANGES AND NEW SUB	STANCES	
10. Which of these phrases desc	ribes a chemic	al change?
a. pouring milk into a glass		
<b>b.</b> melting an ice cube		
c. digesting food in your boo	dy	
<b>d.</b> bending an iron nail		
Use the terms from the following list to	complete the s	entences below.
change	property	
11. A chemical	describes w	hich changes can
happen to a substance.		
12. A chemical	is a process	s by which substances
actually change into new substance	es.	
What Happens During a Chemical Chan	ge?	
Write the letter of the correct answer in	the space pro	vided.
13. Which of the following is an	example of a	chemical change?
a. sugar dissolving		
<b>b.</b> a cake baking		
c. chocolate melting		
<b>d.</b> water freezing		
14. Which of the following desc	ribes what hap	opens to the substances
involved in a chemical chan	ge?	
a. The substances keep their	ir identities.	
<b>b.</b> The substances change in	n form.	
c. The substances change in	nto new substa	ances with different
properties.		
<b>d.</b> The substances combine	and mix.	

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Directed Reading A continued	
igns of Chemical Changes	
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15. Which of the following u	sually happens during a chemical change?
a. Heat is released or ab	sorbed.
<b>b.</b> The state of the matte	er changes.
<ul><li>c. The identity of the ma</li><li>d. No heat is released or</li></ul>	itter stays the same.
	absorbed.
Matter and Chemical Changes	
16. Why are chemical chang	es difficult to reverse?
<b>a.</b> because they involve	physical changes
<b>b.</b> because they change t	
	the identity of the matter
<b>d.</b> because their product	s are hard to find
PHYSICAL VERSUS CHEMICAL CH	ANGES
17. What is the type and the	arrangement of the matter in an object called
<b>a.</b> the physical propertie	es of the object
<b>b.</b> the reactivity of the o	
c. the flammability of the	
<b>d.</b> the composition of the	
	ange differ from a chemical change?
<b>a.</b> The change is not rev	
<ul><li>b. The composition of the</li><li>c. New properties of the</li></ul>	
<b>d.</b> New materials are pro	
<b>19.</b> What do chemical chang	ges in a substance alter?
<b>a.</b> the state of the substa	
<b>b.</b> the composition of th	e substance
<b>c.</b> the size of the substan	nce
<b>d.</b> nothing in the substar	nce
Reversing Changes	
<b>20.</b> Why are chemical chang	
<b>a.</b> because they involve	
<b>b.</b> because they involve	
c. because they involve	
<b>d.</b> because the temperat	ure increases

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d. geomedicaty, despectione, associations	
6. What chemical property causes that to	form on a nail?
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d. Carretteralbeilitz	
2. What do physical changes NOT chang	e*
. the identity of the matter	
the amount of matter	
& the state of matter	
♣ the volume of the sample	
. What makes chemical properties hard	to observe?
♠ They cause changes of state	
Your class to see theres untill there perceds	
C Weighting productive glassics is reigni	are new maderials.
▲ They happen too quickly	