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Chapter 3 – States of Matter

Vocabulary and Section Summary

Chemical Properties VOCABULARY

In your own words, write a definition of the following terms in the space provided.

- 1. chemical property
- 2. chemical change

SECTION SUMMARY

Read the following section summary.

- Chemical properties describe a substance based on its ability to change into a new substance that has different properties.
- Chemical properties can be observed only when a chemical change might happen.
- Examples of chemical properties are flammability and reactivity.
- New substances form as a result of a chemical change.
- Unlike a chemical change, a physical change does not alter the identity of a substance.

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Skills \	Worksheet				
Dir	ected	Reading A			
1. Wha	at are the		Matter r states of matter?		
				V, ENGO IS	i. chenyeu i
2. Wha	nt is a stat	e of matter?		Short	A. hemical'c
PARTIC	LES OF N	IATTER		Yankis	P102 (4642) 12
3. Mat	ter is mad	e up of	and		
	ce provide	d. William wante walled	he correct state of m	atter. Write th	
2. 1		the strong attraction	st enough to over- on between them.	a. solidb. liquid	
	5. Particl	es move independ	ently of each other.	c. gas	
		es are close togetl ne another.	ner but can slide		
	7. Particl	es are close togetl e.	ner and vibrate		
		es move fast enou all of the attractio			
OLIDS					
	a. have b. do r c. do r	e a weaker attracti not move at all.	hat make up a solid ion than those of a li- agh to overcome the ace.		action.

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Name Clas	ss Date
Skills Worksheet	
Directed Reading A	
Section: Behavior of Gases DESCRIBING GAS BEHAVIOR	
a. solid c. gas	
b. liquid d. plasma	1.
	n object are moving
is the	
3. Why is more gas needed to fill helium ba	alloons on a cold day?
	504000
the it preside to pour jaice who argines?	3, how do the particles of a figure or
4. The amount of space that an object takes	g un is the
5. The volume of any gas depends upon the	
tne	word about the grapherties of a liquid
6. The amount of force exerted on a given a	area is
called	
7. Why does the basketball have greater pre-	essure than the beachball?
	aler that
Voticu 41881	(S. Valerbas a kom
	236.40
AS BEHAVIOR LAWS	ल्ड्यु ह से अहारण अप
8. Lifting a piston on a cylinder of ga	as shows that when the pressure of
the gas	
a. increases, the temperature incr	eases.
b. decreases, the volume increase c. decreases, the volume decrease	
d. increases, the volume increases	55.
and the control of th	o

Name	Class	Date
Directed Reading A continued		Skills Worksheer
		mineas honanis
9. All of the following rem	ain constant for	Charles's law EXCEPT
a. the type of piston.		
b. the amount of gas.	65.06	ections Changes of St
c. the volume of the gas d. the pressure.		NEBELY AND CHARGES OF S
10. The relationship between the ve	olume and pressi	ure of a gas is
called	<u>b.</u> 15.1500	
11. Weather balloons are only parti	ially inflated befo	ore they're released into the
atmosphere. Why is that?		
		ters to pagarate was out that I
	The extension of the second section of the section of the second section of the se	
-		
12. Putting a balloon in the freezer	is one way to	
12. Putting a balloon in the freezer		
demonstrate	•	
demonstrate	olume and the te	
demonstrate	olume and the te	GRUDES OF GLUGA DOMINA
demonstrate	olume and the te	авирть от ашел финиа
demonstrate	olume and the te	GRUDES OF GLUGA DOMINA
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demonstrate	olume and the te	GRUDES OF GLUGA DOMINA
demonstrate	olume and the te	
demonstrate	olume and the te	авирть от ашел финиа
demonstrate 13. The relationship between the very pressure remains constant is known and the very pressure remains a very pressure remain	olume and the te	SCHWG, FOLIA TO CRUID S. Could you use gallican to n
demonstrate 13. The relationship between the very pressure remains constant is known and the very pressure remains a very pressure remain	olume and the te	GRUDES OF GLIGGS DANNURS
demonstrate 13. The relationship between the very pressure remains constant is known and the very pressure remains a very pressure remain	olume and the te	EURING, FOLIA TO CROUD L Could you use callican to n

Skills Worksheet	
Directed Reading A	
Section: Changes of State ENERGY AND CHANGES OF STATE	at the type of platen a. the submat of eas. c. the volume of the cas. d. the present
1. Which has the most energy?a. particles in steamb. particles in liquid water2. When a substance changes from one particles in the particles	c. particles in iced. particles in freezing waterphysical form to another, we say the
substance has had a(n)	Statis it will be proposed in the control of the co
AFITING: SOLID TO LIQUID	
5. The temperature at which a substance the of the s	
6. Melting is considered a(n) is gained by the substance as it change	change because energy
REEZING: LIQUID TO SOLID	
7. A substance's changes from a liquid to a solid.	is the temperature at which it

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Directe	d Reading A continued	963	mac. A goth	Directed Rea	
8. What	happens if energy is add	ed or removed from a			
9. Freez	ing is considered a(n)	recipies and order in a	change l	oecause energ	
is rer	noved from the substanc	e		IT TO SOMEH	
EVAPORA	ATION: LIQUID TO GAS				
Match the provided.	e correct definition with t	he correct term. Write			
10	a gas	nce from a liquid to		a. boiling pointb. vapor pressure	
11	the change of state from when the vapor pressure atmospheric pressure	_	c. evaporationd. boiling		
12	the pressure inside the liquid	bubbles of a boiling			
13	the temperature at whi	ch a liquid boils			
14. As you	u go higher above sea lev	vel, the		decreases	
and th	ne	of a substance g	ets lower.		
CONDEN	SATION: GAS TO LIQUI				
15. The cl	hange of state from a gas	s to a liquid is			
16. At a g	iven pressure, the conde	nsation point for a su	bstance is th	ne same as	
its					
17. For a	substance to change from	m a gas to a liquid, pa	rticles		
must _					

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Directed Reading A contin	nued	Transes Agnibas.	Ababani
SUBLIMATION: SOLID TO	GAS		
18. Solid carbon dioxide is	n't ice. So why is it call	led "dry ice"?	
			- , in a separate application of
19. The change of state from	m a solid to a gas is ca	lled	2710 DI
CHANGE OF TEMPERATUR	RE VS. CHANGE OF ST	TATE THE HILLIAND HE	
20. The speed of the particle			
antice setting settent set?	changes.		
21. The temperature of a su	ubstance does not char	nge before the	
inche gerlied æ	is complete.		