(0)
-3
_
텭
- 61
- 1
- 11
_
_
(10)
щ
- "
Ě
Ě
- "
ğ
ğ
rgy
ğ
rgy
rgy
rgy :
rgy a
rgy :
ergy a
rgy a
rgy ar
rgy ar
rgy and
rgy and I
rgy and F
rgy and F
rgy and I

Name	Date	Class
Thermal Energy and Heat	Guided Reading and	Study
Temperature, Th	nermal Energy, a	and Heat
This section describes the three temperature, thermal energy, a		and explains how
Jse Target Reading Sk	ills	
This section explains how te As you read the section, con and heat by completing the organizer can be used to see and heat are similar and dif	npare and contrast tempera graphic organizer. The con the ways in which tempera	ature, thermal energy, mpleted graphic
	Energy Measured	Units
Temperature		
Thermal Energy		
Heat		
<b>Temperature</b> 1. Is the following sentence move, the more kinetic	e true or false? The faster the energy they have.	•
2. What is temperature?		
3. Which particles are more the particles in a glass of		a mug of hot cocoa or

Naı	me Date Class		
The	ermal Energy and Heat • Guided Reading and Study		
Te	mperature, Thermal Energy, And Heat (continued)		
4.	1. What are the three common scales for measuring temperature?		
	ab		
	c		
5.	The most common temperature scale in the United States is the scale.		
6.	The temperature scale used in most of the world is the scale.		
7.	The temperature scale commonly used in physical science is the scale.		
8.	What are the intervals on the Fahrenheit scale called?		
9.	Which scale is divided into 100 equal parts between the freezing and boiling of water?		
10.	What is the temperature called at which no more energy can be removed from matter?		
11.	Complete the following table.		

Temperature Scales				
Scale	Absolute Zero	Water freezes	Water boils	
Fahrenheit	-460°			
	-273°		100°	
	0	273		

## **Thermal Energy and Heat**

<b>12.</b>	The total energy of the particles in a substance is called its
	energy.

- 13. Circle the letter of each sentence that is true of thermal energy.
  - $\boldsymbol{a.}\,$  Thermal energy partly depends on the temperature of a substance.
  - **b.** Thermal energy partly depends on the scale used to measure the temperature of a substance.
  - **c.** Thermal energy partly depends on how the particles of a substance are arranged.
  - **d.** Thermal energy partly depends on the number of particles of a substance.

Therm	
a)	
3	
<b>P</b>	
G	
2	
Ø	
Ę	
•	
Ξ	
(0)	

Nar	me Date Class
The	ermal Energy and Heat • Guided Reading and Study
Sp	ecific Heat
14.	What is a substance's specific heat?
15.	What is the unit of measure for specific heat?
16.	Materials with a high specific heat can absorb a great deal of thermal energy without a great change in
<b>17.</b>	The energy gained or lost by an object is related to which of the following? Circle the letter of the terms that answer the question.
	<ul><li>a. mass</li><li>b. volume</li><li>c. specific heat</li><li>d. change in temperature</li></ul>
18.	What is the formula you can use to calculate thermal energy changes?