	Class	Date
Directed Reading B continue	ed	
<mark>c.</mark> 10. Many standardized	l units of measurement v	were once based on
a. the weather.		
b. mythology. c. parts of the bod	V	
d. ancient worldw	•	
11. What are two advantages	of using the Internation	al System of Units?
1. Scientists can share and	compare a standard set of mea	asurements
2. The SI system is based o	n the number 10 (decimal syst	
it easy to do calculations.		
12. What unit of measuremen	t would a life scientist u	se to describe the length of
an ant?		
millimeters		
13. A measure of the size of t	he surface of an object o	or region is its
area		
	 square meter	
14. The units for area are call	ed	units.
15. What is the term used to a	lescribe the size of some	ething in three-dimensional
space?		
16. What SI units of measurer	ment are used to describ	e the volume of liquids and
solids?		
cubic meters or lite	ers	
cubic meters or lite		ters?
cubic meters or lite	d equal in cubic centime	ters?
cubic meters or lite 17. What does 1 mL of a liquid 1 cm3 or on	d equal in cubic centime <mark>e cubic centimeter</mark>	
cubic meters or lite 17. What does 1 mL of a liquid 1 cm3 or on 1 cm3 or on 18. How would you find the v	d equal in cubic centime e cubic centimeter rolume of a box-shaped o	
cubic meters or lite 17. What does 1 mL of a liquid 1 cm3 or on	d equal in cubic centime e cubic centimeter rolume of a box-shaped o	
cubic meters or lite 17. What does 1 mL of a liquid 1 cm3 or on 1 cm3 or on 18. How would you find the v volume = length x width x liquid	d equal in cubic centime <mark>e cubic centimeter</mark> rolume of a box-shaped o <mark>height</mark>	object?
cubic meters or lite 17. What does 1 mL of a liquid 1 cm3 or on 1 cm3 or on 18. How would you find the v volume = length x width x liquid 19. How would you find the v	d equal in cubic centime <mark>e cubic centimeter</mark> rolume of a box-shaped o <mark>height</mark>	object? shaped object?

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Name	_ Class	Date	
Directed Reading B continued			

20. What tool is used in science to measure the volume of a liquid?

a graduated cylinder - a glass tube with a floor and line markings on the side.

- **21.** A measure of the amount of matter of an object is its mass
- 22. Why is the mass of an object constant any place in the universe? mass is the amount of material (PNE's protons, neutrons, and electrons) that the object contains, this stays the same throughout the universe
- **23.** What units of measurement are used to describe an object's amount of matter, or mass?
- **24.** What is weight?

The measure of the force of gravity pulling down on the object.

25. Why is the weight of an object on Earth different from its weight on the moon?

The moon has one sixth the amount of gravity of the Earth, therefore it pulls less weight on objects.

26. What is temperature a measure of?

grams

How hot or cold something is due to the average kinetic energy of the motion of it's particles.

Match the correct description with the correct term. Write the letter in the space provided.

- temperature **27.** an indication of the amount of energy within **a.** kelvins matter

 - **b.** temperature

- thermometer
- **28.** a tool used to show temperature kelvins 29. official SI base units for describing
 - temperature
- degrees Celsius **30.** units commonly used by scientists to describe temperature
- c. degrees Celsius **d.** thermometer

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