Name:	Date:	Period:						
Unit 1 Scientific Design								
QUIZ  LT: I can identify and classify properties of matter/ 7 =								
LI. I can	dentity and classify property	ies of matter						
Part I: So	lute vs. Solvent							
1.	What is known as the universa	al solvent?						
2.	What is in a larger quantity so	lute or solvent?						
3. In salt	water what is the solute and wh	nat is the solvent?						
	eparating Mixtures each of the following:							
C.	Filtration Chromatography Crystallization Distillation	<ol> <li>Separates based on the ability of a substance to be drawn across the surface of a material (like a paper towel or tissue</li> <li>Used to separate heterogeneous mixtures, the solid material is left behind</li> <li>Separates homogeneous mixtures by a difference in boiling point</li> </ol>						
1.	One substance evaporates and the dissolved substance comes out of solution							

- - a. "If..., then..., because..." statement
  - b. Procedures
  - c. Independent Variable
  - d. Dependent Variable

Unit 1: Scientific Design							
Name:	Date:	Period:					
6. Define independent var	iable:						
hypotheses. a. If a sick mouse is injected	ed with a flu vacci	e dependent variable in the followine, then it will get healthy 3 day vaccine, because vaccines help to	s faster				
Independent Varial	ole						
Dependent Variable	e						
b. If a plant is placed in a femperatures cause pla		its leaves will turn brown, becau	ıse high				
Independent Varial	ole						
Dependent Variable	Dependent Variable						
8. Fill in the table below a	nd write a hypotł	hesis for the following scenario:					
Scenario: A scientist places two plants in his lab. He decides to water Plant A once a day and to water Plant B twice a day. After taking measurements for two weeks, the scientist concludes that Plant B grew twice as tall as Plant A. What do you think will happen if another plant, Plant C, is watered three times a day for two weeks?							
Independent Variable in ir experiment:	nitial	Dependent Variable in initial ex	operiment:				
Hypothesis: If		(independent var	riable)				
then		(dependent vari	able),				

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because			_

## IV. Physical and Chemical Changes

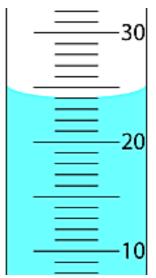
## LT: I can distinguish between physical and chemical changes. \_\_\_\_/6

Identify the following as a physical or chemical change:

- 9. Cutting your hair \_\_\_\_\_
- 10. Burning a tree \_\_\_\_\_
- 11. Crumbling a piece of paper \_\_\_\_\_
- 12. Putting Mentos in soda \_\_\_\_\_
- 13. Give an example of a physical change (not listed above):
- 14. Give an example of a chemical change (not listed above):

LT: I can use appropriate lab equipment to measure volume, mass, distance and time accurately.  $\underline{\hspace{1cm}}/4 =$ 

15.



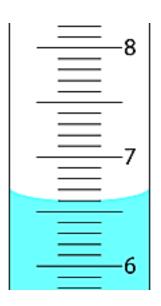
What is the volume of the liquid?

- a. 22 mL
- b. 25 mL

Name: \_\_\_\_\_ Date: \_\_\_\_ Period: \_\_\_\_\_

- c. 24 mL
- d. 26 mL

16.



What is the volume of the liquid?

- a. 6.2 mL
- b. 6.6 mL
- c. 6.0 mL
- d. 5.8 mL
- 17. An electronic balance is used to measure?
- a. mass
- b. volume
- c. density
- d. length
- 18. A graduated cylinder is used to measure?
  - a. mass
- b. volume
- c. density
- d. length