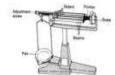


Matter Essential Questions/Test Review



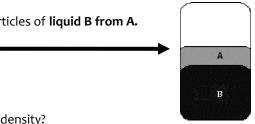
			_	_	***	20
Name:		Class Hour	Due:	_Score:	/40	
ALC IN COMMENT MAY	following essential questic earned or need to learn. It	•	-		-	ct or
practice question to do something	n will ask to recall someth 3 •	ning you should kn o	ow or ask	you to d	lemonstrate	hov
do some additional re	e too small to see with the nor esearch on google to find at lea e space provided below.					
1.			2.			
	e graphic below. Explain how t e your answers next to each pi					red in
	A Atoms of an element	B Molecule	ss of an element			
	C Molecules of a compound	and a	of two elements compound			
Question 3: What do	scientists call the smallest unit	of matter that has its	own recog	nizable ide	ntity?	
Question 4: What do	scientists call a substance that	is made of two or mo	re atoms b	onded toge	ether?	
Question 5: Draw an	example of an atom and a mol Atom	ecule below. Molecu	ما			
L						
	icture of the arrangement of p		states of n	natter. Plea	ase write one s	umm
	' me monon or parndes in eacr	. p as c.				
Question 6: Draw a p sentence to describe Sol		G	as			
sentence to describe		G	as			
sentence to describe		G	as			

 1. Solid Summary Sentence:

 2. Liquid Summary Sentence:

3. Gas Summary Sentence:

Question 7: Explain how a person could use the following formula in 1 pa	ragraph below.	M	
		D V	
Question 8: In what ways is this drawing of the atom correct			
Correct:	<u>Incorrect:</u> 1.		//
			-
2.	2.		//
Question 9: Describe at least two general limitations or prob	lems with using models to represe	nt	v
1. 2.			
created the "plum pudding" model of the atom, which was last an experiment that gave evidence that atoms have a nucleus electrons may orbit the nucleus. What does this show about current knowledge of atoms? a. These scientists built upon previous knowledge at b. These scientists each had their own ideas about a c. These scientists could only contribute scientific knowledge. d. It takes more than 100 years to make major discovocused in the country of	to Later, Bohr proposed a model the and ideas about atoms. It were unrelated to previousledge if they got the model of the acceptance.	at explains how ous information. the atom completely	
Question 12: Early scientists thought the parts of the atom w	ere spread evenly throughout the	atom. How has the	
model changed? We now know	B. it has most of it's mass in the	center	
C. most of the atoms' particles are in the outer layer.	D. atoms are holding still.	center	
Question 13: Which answer below best describes the future of a. Models will probably change because scientists like to b. Models will probably change because new technology atoms. c. Models will probably stay the same because scientist	o change things. gy will provide better information a	about the structure of	
the structure of atoms.		Use the pictures to answer the question.	
d. Models will probably stay the same because scientist Question 14: What is the mass, volume and density of the roo Mass = Volume =		20 20 15 15 16 16	
		Before After	aro
Density =		measurements in	grams



Question 16: What is the correct (written in words) formula for calculating density?

A. Volume times mass

B. Mass times weight

C. Volume divided by mass

D. Mass divided by volume

Question 17: If the mass of a cube is 48 g and the volume 24 cm³; what would the density be?

A. .5 g/ cm^3

B. 2 g/cm^3 C. 4 g/cm^3

D. 6 g/cm³

Question 18: What did the classroom demonstration of adding red corn syrup, green water, yellow cooking oil, and air to a graduated cylinder help you learn?

Question 19: Read the experiment description and chart of results below. What was the variable being tested in this experiment? Which beaker in the experiment did the food coloring spread out the fastest? Why?

A student added a drop of red food coloring to 4 beakers of water. Each beaker contained 100 ml of different temperature water. The student recorded how long it took each beaker to mix completely (without stirring). The following table shows her results:

11		
#1	10 C	120 Sec
#2	25 C	55 sec
#3	40 C	40 sec
#4	8o C	23 sec

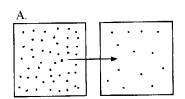
Question 20: What did the classroom demonstration of heating the metal ball to see if it could continue to fit through

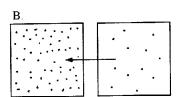
the metal ring help you learn?

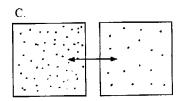
Question 21: When the temperature of a substance increases, what happens to the speed of the molecules?

Question 22: What happens to the volume (size) of most substances when the temperature gets hotter?

Question 23: Which diagram is the best depiction of the direction of flow of diffusion? The dots represent molecules of food coloring. (Circle your answer)







Question 24: Students placed a balloon filled with air in a freezer and left it there for several hours. What will they observe when they take the balloon out?

Question 25: One of the best ways to weaken the bonds holding particles together is by

a. adding heat

b. grinding

c. creating movement

d. applying pressure

Question 24: Windows in houses are designed to never fit tightly into the frame of the house. Why might that be?