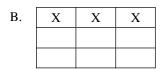
Atoms, Elements & the Periodic Table (6.P.2.1)

Name:		Date:	
1.	Generally, how do atomic masses vary throughout the periodic table of the elements? A. They increase from left to right and top to bottom.	4. The Periodic Table of the Elements classifies all of the known elements into categories based on their physical and chemical properties. Repeating patterns within the table are useful in predicting how elements combine to form every kind of matter.	
	B. They increase from left to right and bottom to top.C. They increase from right to left and top to bottom.D. They increase from right to left and bottom to top.	Partial Periodic Table 1	
2.	Which of the following is the <i>most</i> important factor in determining an element's place in the periodic table? A. Number of protons	A. 6 protons B. 6 neutrons C. 12 electrons D. 12 electrons	
	B. Number of neutronsC. Atomic ChargeD. Atomic Density	5. Group I (the alkali metals) includes lithium (Li), sodium (Na), and potassium (K). These elements have similar chemical properties because they have the same	
3.	The chemical properties of an element are determined by its	A. numbers of protons and neutronsB. numbers of electrons in the outer energy levelC. numbers of protons in the nucleus	
	A. atomic mass.B. proton number.C. electron arrangement.	D. numbers of neutrons in the nucleus	
	D. atomic size.		

6. The pictures below show the position of different elements on the periodic table. Which picture has an X in the locations of the three elements that would be most similar in the way they react?

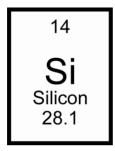
A.	X		
	X		
	X		



C.	X		
		X	
			X

D.			X
		X	
	X		

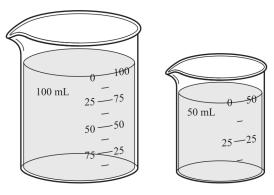
7. Use this element from the periodic table to answer the question.



What is the atomic mass for silicon?

- A. 14.0 B. 14.1 C. 28.1 D. 42.1
- 8. What is the smallest particle of the element gold (Au) that can still be classified as gold?
 - A. atom
- B. molecule
- C. neutron
- D. proton

9. The two beakers below contain pure water.



Which of the following properties is the same for both of these samples?

- A. mass
- B. weight
- C. volume
- D. boiling point
- 10. Which of the following substances can be separated into several elements?
 - A. nitrogen
- B. zinc
- C. air
- D. aluminum
- 11. A student is given a sample of an unknown liquid to test in the laboratory. The student thinks that the liquid is water. Which of the following physical properties of the sample is *most* helpful to determine if the liquid is water?
 - A. color of the liquid
 - B. mass of the liquid
 - C. volume of the liquid
 - D. boiling point of the liquid
- 12. Which two substances are elements?
 - A. sand and air
- B. salt and sand
- C. iron and helium
- D. helium and water

12	A question on Israel's homography assignment called		10 Which above all grounds along group (No) and	
13.	A question on Jamal's homework assignment asked him to explain why air is matter. Which of the following statements should Jamal write to answer the question correctly?		9. Which chemical property places neon (Ne) and argon (Ar) in the same group?	
			A. Both elements form ionic compounds.	
	A. Air is invisible.		B. Both elements have a full outer energy level.	
	B. Air is needed for breathing.		C. Both elements have low ionization energy.	
	C. Air takes up space and has ma	nass.	D. Both elements are liquids at 38°C.	
	D. Air takes the shape of its container.		0. Which of the following <i>best</i> describes an atom?	
14.	Which of the following will form a compound when combined?		A. protons and electrons grouped together in a random pattern	
	A. Atoms B. Eler	ements	B. protons and electrons grouped together in an alternating pattern	
	C. Neutrons D. Elec	ctrons	C. a core of protons and neutrons surrounded by electrons	
15.	Why are elements considered the building blocks of all compounds?		D. a core of electrons and neutrons surrounded by protons	
	A. Elements can change into liquids or gases.B. Elements can change into smaller elements.		21. Which of the following is found farthest from the center of an atom?	
16.	Which element is located in Group 2 (IIA) and Period 6 of the periodic table?		C. neutron D. electron	
			. Which of the following atoms has six valence electrons?	
	A. barium (Ba) B. mol	lybdenum (Mo)		
	C. radium (Ra) D. tung	gsten (W)	A. magnesium (Mg) B. silicon (Si)	
17.	Which is the <i>best</i> example of a pur	are substance?	C. sulfur (S) D. argon (Ar)	
	A. peanuts B. milk	k 23	on this information, which of the following also	
	C. gold D. air		describes an atom of silver?	
			A. It has no neutrons.	
18.	The smallest particle of any element that still has the properties of that element is called		B. It has 47 electrons.	
			C. It has 23 neutrons and 24 electrons.	
		ompound.	D. It has a total of 94 neutrons and electrons.	
	C. a solution. D. a m	nixture.		

- 24. Which of the following subatomic particles can be found inside the nucleus of an atom?
 - A. electrons only
 - B. neutrons only
 - C. protons and neutrons
 - D. protons, neutrons, and electrons