	SCH3U	Atomic	History	and	Models	Quiz
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Name:	S23
on.	

Multiple Choice

Identif	y the	choice that best completes the statement or ans	swers	s the question.
	1.	The particle that has the smallest mass is the a. electron	d.	nucleus
		b. protonc. neutron	e.	ion
	2.	Two atoms are isotopes if they have a. different atomic numbers		
		b. the same mass number, but different atomi	c nu	mbers
		c. the same number of protons and neutrons		
		d. the same number of electrons, but a difference.e. the same atomic number, but a different m		
	3.	Which subatomic particle is represented by the	e chij	•
		a. electronsb. neutrons	c.	leptons protons
				•
	4.	The Materials Safety Data Sheet, which comes 1. The steps that should be taken if the chemic 2. The hazards that are associated with the chemic 3. The legal liability associated with the chemic 4. The protective clothing that should be worn	al is mica cal's	spilled; l; use;
		a. 1, 2, and 4 only	WIIC	in nandring the chemical.
		b. 1, 2, 3, and 4		
		c. 2, 3, and 4 onlyd. 1, 3, and 4 only		
		e. 1 and 2 only		
	5.	A red border on a hazard symbol indicates		N 1 1
		a. Cautionb. Danger	c. d.	Non-hazardous Warning
		C	a.	warming.
	6.	What does WHMIS stand for?	0	workplace household meterials instruction
		a. workplace and household materials information system	c.	workplace household materials instruction system
		b. workplace healthy materials information	d.	workplace hazardous materials
		symbols		information system
	7.	The first column of the periodic table contains	the:	
		a. Halogensb. Alkaline earth metals	c. d.	Alkali metals Noble gases
		o. Alkaime earth metais	u.	Noble gases
	8.	Which of the following contains only non-met		C. Cl. IV
		a. I, H, Ag b. Br, S, P	c. d.	C, Cl, K Al, Sr, Na
			a.	11, 01, 11
	9.	The atomic mass is: a. The number of electrons in the atom	0	The number of protons in the stam
		a. The number of electrons in the atomb. The number of neutrons in the atom	c. d.	The number of protons in the atom The sum of protons and neutrons
	1.0			- -
	10.	Sulphur atoms form ions with the following cha. 1-	_	: 2-
		b. 1+		2+
	11.	Which of the following ions have the same number $1) K^{+} 2) F^{-} 3) Mg$		of electrons as the noble gas Neon? 4) S ²⁻ 5) O ²⁻
		a. 2, 3 and 5 only	c.	1 and 2 only
		b. 3, 4 and 5 only	d.	2 only

Matching /8

Match	each step	or part of	the scientific	method to	matching	statements	below:

a. Hypothesis

e. Independent (manipulated variable)

b. Problem

f. Dependent variable

c. Procedure

g. Results

d. Errors

h. Conclusion

- ____ 12. You added more solution than the procedure called for
 - 13. Does too much salt in the soil prevent roses from growing?
 - 14. Your test subjects will eat 0gm, 20gm or 50gm of chocolate a day
 - 15. Eating more chocolate will cause you to get more zits.
 - 16. The steps you follow to test your hypothesis
 - 17. The number of zits your subjects get after their chocolate treatment
 - 18. The hypothesis was correct. Eating more chocolate results in more zits.
 - 19. The roses grew better with less salt in the soil

Short Answer

- 20. The term 'atom' was first proposed by Democritus and was defined as the smallest, indivisible particle of matter
 - a) Explain why this definition of an atom can be considered accurate?
 - b) Explain why this definition of an atom is inaccurate?
- 21. Explain **two similarities** and **two differences** between Thompson's raisin bun model and Rutherford's nuclear model.
- 22. Given the information on various elements in the table below:
 - a) complete the table
 - b) which, if any, are isotopes of each other
 - c) explain your answer to (b)

	Z	A	Neutrons	Electrons	Element Name
A.		40		20	
B.	18	40			
C.		36	18		
D	16		20		

23. Identify 2 components of Dalton's atomic model that are still incorporated in current models of the atom.

DRAW THIS LINE on your answer page and indicate how confident you feel in this topic and the accuracy of your quiz answers.

**After reviewing the answers & making your corrections, make a second mark on the line in your correction colour.

