	Name	_Per	Date
Classification of Matter, Physical/Chemical Properties, Scientific Method and the Atom			
1.	Define the following: a. element	C.	homogeneous mixture
	b. compound	d.	heterogeneous mixture
	Classify the following mixtures as an eleme heterogeneous mixture: a. Neon b. Salt (sodium chloride) c. Pure water Define diatomic elements. What are the c	d. e. f.	Pure air Iced tea with ice Soda
4.	What is the difference between a chemical change and a physical change?		
5.	What is the difference between a chemical property and a physical property?		
7.	Identify the following as a physical or cher a. malleable b. flammable Identify the following as a physical or cher a. boiling b. torn in half What are the steps of the scientific method	c. d. mical chang c. d.	combustible brittle
9. What is the difference between a theory and a law?			
10. What is the difference between a dependent and an independent variable?			
 11. What are the three fundamental particles of an atom? What are their charges and masses? 12. How can you find the number of protons, neutrons and electrons of an atom? 13. How many protons, neutrons and electrons do the following atoms have? a. Iron-56 d. 2381 J2- 			
	a. Iron-56		⁴² Cq ²⁺
	b. Hydrogen-3c. Chromium-54		81Br -
 14. Define isotope. 15. Most of an atom's volume is taken up by the 16. Most of an atom's mass is taken up by the 17. Who discovered the electron and how did he do it? 18. Who discovered the nucleus and how did he do it? 19. Complete the following problems: p. 13 #12, p. 32 #12, p. 34 #17, p. 39 #31, p. 41 #35ab, 36ab, p. 42 #37ab, 38ab, p. 82 47abc, p. 113 #64, 67, 68, 79, p. 114 #80 			