## **Guided Lesson Notes**

ame: Date:				
Isotopes and	Atomic Mass			
<b>Directions:</b> Complete this study guide as you notes, you are more likely to remember what guide can be used for practice activities and to save each study guide so you can access	It you are learning. The completed study			
Essential Vocabulary				
As you encounter these scientific terms in example (or two) for each. You can even unfamiliar words you find, enter them in	draw a picture. If there are other			
isotope	atomic mass			
unified atomic mass units	average atomic mass			
weighted average				

Isotopes	io nartiale can va	m, in a noutral ata	.m2			
vviiat Subatoiiii	ec particle carr val	ry in a neutral ato				
Compare the three forms of hydrogen in the following table:						
Туре	Atomic Number	Number of protons and electrons	Mass number	Number of Neutrons		
Protium						
Deuterium						
Tritium						
What is an isot	ope?					

Jse the words aton ollowing sentence	nic number and mas	s number to fill in th	e blanks in the
Isotopes of the sar	same bu	_ but different	
omparing Subato	mic Particles nformation in the fol	lowing table:	
Particle	Actual Mass (g)	Mass (u)	Relative Mass
	9.11×10 <sup>-28</sup>		1 1836
	1.674 × 10 <sup>-24</sup>		
	1.675 × 10 <sup>-24</sup>		
ow do the masses	s of protons and neu	trons compare?	
ow does the mass	of an electron com	pare to the mass of	protons and neutron

Why is the atomic mass of an element not always near a whole number?				
What are the two stables, naturally occurring isotopes for chlorine?				
How is the average atomic mass for chlorine calculated?				
Tutorial: Calculating Atomic Mass				
Describe how to calculate the atomic mass for an element.				