Isotopes of an Element:		
Objective:		
Key Concepts:		
Atomic Mass:		
Atomic Mass:		
Unit for Atomic Mass:		
On the modern periodic table, are the atomic masses for Yes	or the elements written a	as whole numbers?
What does the atomic mass tell us about atoms of an e	lement?	
The atomic mass is an	of all the	of an
for an		
Isotopes:		
are the different and		of an element.
All forms of an element have the same number of	and	·
Isotopes in the number of	in the	of an atom.
Isotopes can have	than the most com	mon form of an atom.

Isotopes of an Element: Processing

- 1. Use your periodic table to fill in the atomic mass for each of the following elements.
- 2. Using the atomic mass and the atomic number, calculate the amount of neutrons an atom has in the most common form for the elements.

Element	Elements Atomic Number	Elements Atomic Mass	Number of Neutrons in Most Common Form
Hydrogen (H)	1		
Helium (He)	2		
Lithium (Li)	3		
Boron (B)	5		
Carbon (C)	6		
Nitrogen (N)	7		
Oxygen (O)	8		

- 3. After figuring out the number of neutrons an atom of element has in its most common form, determine how many neutrons each atom for following elements have. The number next to the name of the element is the atomic mass for that specific atom/isotope.
- 4. State whether that atom type is the common form or isotope form for the element.

Element	Elements Atomic Number	Number of Neutrons	Isotope of Common Form
Hydrogen – 1			
Hydrogen – 2			
Hydrogen – 3			
Helium – 4			
Helium – 5			
Lithium – 6			
Lithium – 7			
Boron – 10			
Boron - 11			
Carbon – 12			
Carbon – 13			
Nitrogen – 13			
Nitrogen – 14			
Nitrogen – 15			
Oxygen – 16			
Oxygen – 18			