Icotomo	Practice	Work	choot
Isotobe	Practice	vv ork:	sneet

Name:

Learning Target: Use isotope notation to determine: element name/symbol, atomic number, number of electrons, number of neutrons, number of protons, mass number, atomic number, atomic mass. Isotope Notation:

1.	Here are three isotopes of an element: 6^{12} C 6^{13} C	6 ¹⁴ C
	a. The element is:	
	b. The number 6 refers to the	
	c. The numbers 12, 13, and 14 refer to the	
	d. How many protons and neutrons are in the first isotope?	
	e. How many protons and neutrons are in the second isotope?	
	f. How many protons and neutrons are in the third isotope?	

2. Complete the following chart:

Isotope name	atomic #	mass #	# of protons	# of neutrons	# of electrons
92 uranium-235					
92 uranium-238					
5 boron-10					
5 boron-11					

3. Naturally occurring europium (Eu) consists of two isotopes was a mass of 151 and 153. Europium-151 has an abundance of 48.03% and Europium-153 has an abundance of 51.97%. What is the atomic mass of europium?

Element	Symbol	Atomic	Number	Number	Mass	Isotope	Atomic Mass
		Number	of	of	number	Notation	
			electrons	Neutrons			
Helium			2	2			
	Ti		22		50		Ti - 50
		73	68	108			
Gallium			28	39			
						¹³ C ⁻⁴	
						88 226 Ra	
		83	83	127			