

Use your notes from the Atomic Structure program to answer the following questions.

- The atomic number tells the number of positively charged \_\_\_\_\_ in the nucleus of an atom. The atom is \_\_\_\_\_ because this is also the number of \_\_\_\_\_ charged \_\_\_\_\_ in the atom.
- The mass number tells the total number of \_\_\_\_\_ and \_\_\_\_\_ in the nucleus of an atom. These particles collectively are called \_\_\_\_\_ since both are located in the nucleus.
- Isotopes are atoms of the same element with different numbers of \_\_\_\_\_ which results in different \_\_\_\_\_ numbers.
- Write the hyphen notation of the three isotopes of hydrogen:
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- Fill in the following chart (Hint: Isotopes may have different masses than the periodic table lists!):

Symbol	Atomic #	Mass #	# of protons	# of electrons	# of neutrons
Hg	80	201			
Mo	42	96			
	29			29	35
C		14			
	15	31			
Pb		208	82		
Na	11				13