

Protons, Neutrons, and Electrons Practice Worksheet

(adapted from [firststaff.ednet.ns.ca/holmesdl/Science 10 Chemistry/Nicole MacNeil's chemistry unit/protons_neutrons_and_electrons_practice_ws.docx](http://firststaff.ednet.ns.ca/holmesdl/Science%2010/Chemistry/Nicole%20MacNeil's%20chemistry%20unit/protons_neutrons_and_electrons_practice_ws.docx))

Use the periodic table to find the numbers of protons, neutrons, and electrons for atoms of the following elements.

Name of Element	Element Symbol	Mass Number	Atomic Number	Protons	Neutrons	Electrons	Hyphen notation	Isotope symbol
Boron	B	11	5	5	6	5	boron-11	${}_{5}^{11}\text{B}$
Sodium		24	11					
Gallium				31	37			
Copper	Y	89				39		
	Tc	98	29	43	35			
	Pb	207						
Ytterbium					103	70		
	Ac	227		89				
	Mo				54			
Thallium		204	81					
	Fm		100		157			
	No	259						
	H				0			
Carbon		12						
	N			7				

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Fill in the blanks in the following worksheet. Please keep in mind that the isotope represented by each space may NOT be the most common isotope or the one closest in atomic mass to the value on the periodic table.

Name of Element	Element Symbol	Mass Number	Atomic Number	Protons	Neutrons	Electrons	Hyphen notation	Isotope symbol
						56	hydrogen-1	
	Ba			2				
Calcium	Ca					2		
	Si					14		
Argon	Ar		18					
	Mg			12		12		
				106	159			

Atomic symbol	Atomic number	Protons	Neutrons	Electrons	Atomic mass
B			6		
	11				24
		31	37		
				39	89
	29		35		
		43			100
Pb					207
			102	70	
		89			225
Mo			53		
	81				206
	100		159		
No					261
Yb					172
		106	159		