

## Atomic Number and Mass Number

Name:  
Date:  
Period:

*Directions:* Complete the following chart and answer the questions below:

Element Name	Atomic Number	Number of Protons	Number of Neutrons	Number of Electrons	Mass Number
carbon					12
	8		8		
hydrogen					1
		6			14
hydrogen			2		
nitrogen					14
			1		2
	92		146		
cesium			82		
	11		12		
		47			108
tungsten			110		
			45		80
		24			52
			89		152
silver					107
	76		114		

[1] How are the atomic number and the number of protons related to each other? Support.

[2] How do the number of protons, number of neutrons, and the mass number relate to each other? Explain.

[3] What is the one thing that determines the identity of an atom (that is, whether it is an oxygen atom or a carbon atom, etc.)? Support.