

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Period: \_\_\_\_\_

**Chemistry: Atomic Number and Mass Number**

Complete the following chart and answer the questions below.

<i>Element Name</i>	<i>Atomic Number</i>	<i>Number of Protons</i>	<i>Number of Neutrons</i>	<i>Atomic Mass</i>	<i>Isotope Symbol</i>
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		

How are the *atomic number* and the *number of protons* related to each other?

How do the *number of protons*, *number of neutrons*, and the *mass number* relate to each other?

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.)?