Name: _____ Date: _____ Period: _____

Fill in the following chart using your periodic table.

	Chemical Symbol	Mass Number	Atomic Number	Protons	Neutrons	Electrons	Hyphenated Notation
1		31		15			
2		2	1				
3		1	1		0		

Match the term with its definition

Atom	Atomic Number	Compound	Electron	Element	Isotope
Matter	Mass Number	Mixture	Neutron	Nucleus	Proton

_____ 1. The positive part of an atom

_____ 2. The negative part of an atom

_____ 3. The neutral part of an atom

_____ 4. The center of an atom; where the protons and neutrons are found

_____ 5. The number of protons in an atom

_____ 6. Different types of an element with different numbers of neutrons

_____ 7. The number of protons + neutrons in an atom

_____ 8. Anything that has mass and volume

_____ 9. Matter made of only one type of atom

_____10. Two or more elements chemically combined

_____11. Two or more elements and compounds physically combined

_____12. The smallest part of an element that can exist alone

Name: _____ Date: _____ Period: _____

Chemical Symbols

	Mass Number	Atomic Number	Protons	Neutrons	Electrons	Hyphenated Notation
$^{23}_{11}$Na						
$^{27}_{13}$Al						
$^{40}_{20}$Ca						
	12	6			6	
	13	6			6	
	133	55			55	
		12		12	12	
			81	123	81	
	28			14	14	

Notes on filling out the chart:

Complete each statement by circling the correct choice.

1. The mass number is the **(top / bottom)** number in the chemical symbol.
2. The atomic number is the **(top / bottom)** number in the chemical symbol.
3. The number of protons is equal to the **(mass / atomic)** number.
4. The number of **(neutrons / electrons)** is equal to the mass number – protons.
5. The number of electrons is equal to the number of **(protons / neutrons)** in a neutral atom.
6. The hyphenated notation is the elements name followed by a dash and the **(mass / atomic)** number.