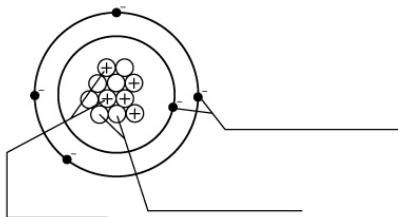
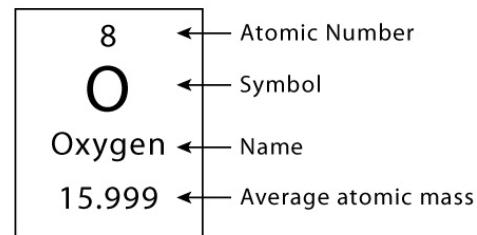


Basic Atomic Structure

1. Label the parts of an atom in the diagram below



- a) What type of charge does a proton have? _____
 - b) What type of charge does a neutron have? _____
 - c) What type of charge does an electron have? _____
 - d) Which two subatomic particles are located in the nucleus of an atom? _____
2. An element is represented by its chemical symbol along with a few numbers. Based on the example on the right, fill in the numbers of protons (P), neutrons (N), and electrons (E) for the following elements.



6	#P _____
C	#N _____
Carbon	#E _____

12.011

10	#P _____
Ne	#N _____
Neon	#E _____

20.108

19	#P _____
K	#N _____
Potassium	#E _____

39.098

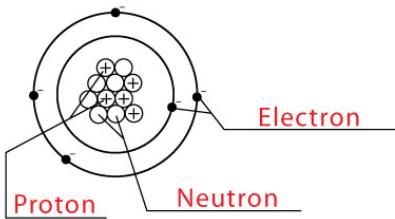
3. Complete the table using your knowledge of the periodic table.

Symbol	Atomic Number	Mass Number	Number of Protons	Number of Electrons	Number of Neutrons
Na			11		12
K		39		19	
			38		50
F				9	10
	20	40		20	
	50			50	69
I	53	127			

Basic Atomic Structure

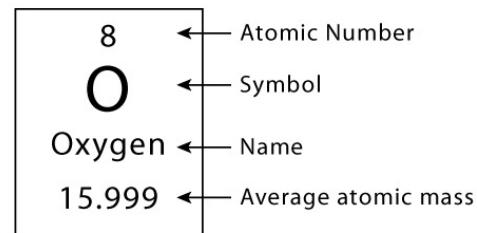
Answers

1. Label the parts of an atom in the diagram below



- a) What type of charge does a proton have? Positive
- b) What type of charge does a neutron have? Neutral
- c) What type of charge does an electron have? Negative
- d) Which two subatomic particles are located in the nucleus of an atom? Proton and neutron

2. An element is represented by its chemical symbol along with a few numbers. Based on the example on the right, fill in the numbers of protons (P), neutrons (N), and electrons (E) for the following elements.



6
C
Carbon
12.011

#P 6
#N 6
#E 6

10
Ne
Neon
20.108

#P 10
#N 10
#E 10

19
K
Potassium
39.098

#P 19
#N 20
#E 19

3. Complete the table using your knowledge of the periodic table.

Symbol	Atomic Number	Mass Number	Number of Protons	Number of Electrons	Number of Neutrons
Na	11	23	11	11	12
K	19	39	19	19	20
Sr	38	88	38	38	50
F	9	19	9	9	10
Ca	20	40	20	20	20
Sn	50	119	50	50	69
I	53	127	53	53	74