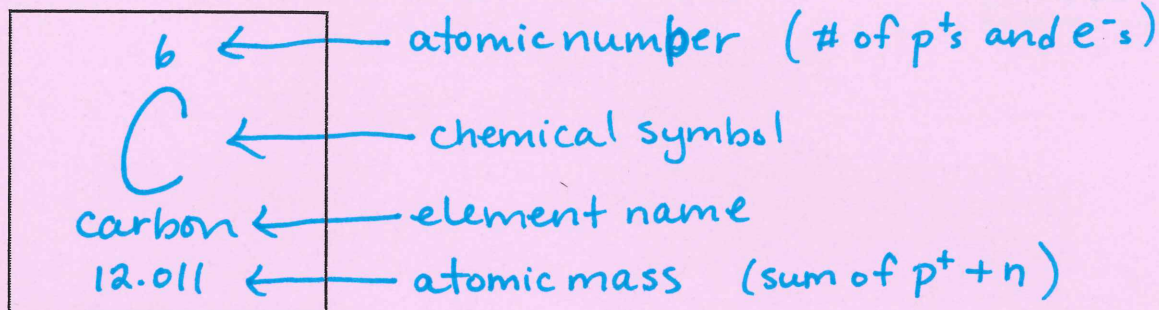


## How to Read the Element Squares of the Periodic Table

- Each square of the periodic table contains important information for that element

o Ex.



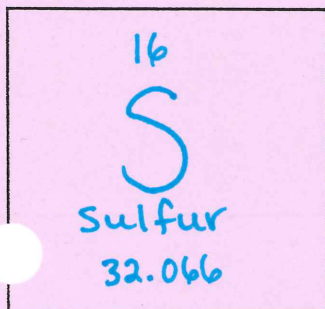
- We have already discussed element names and symbols, but there are 2 other important pieces of information on each square. They are:

o Atomic number: is the number of protons in the nucleus of 1 atom of that element. It also tells you the number of electrons because the # of protons = # of electrons.

o Atomic mass is the average mass of 1 atom of the element (and also the sum of the number of protons and neutrons in the nucleus of 1 atom of that element).

$$\text{\# of neutrons} = \text{atomic mass} - \text{atomic number}$$

Now you try:



$$p^+ = 16$$

$$e^- = 16$$

$$n = 32 - 16 = 16$$

47

Ag  
Silver

107.868

$$p^+ = 47$$

$$e^- = 47$$

$$n = 108 - 47 = 61$$

82

Pb

Lead  
207.2

$$p^+ = 82$$

$$e^- = 82$$

$$n = 207 - 82 = 125$$