

THE PERIODIC TABLE OF THE ELEMENTS

Name: _____
Date: _____ Per: _____
Assign. No. _____

1. Elements in the periodic table are in order of _____ (pg 139)

2. Fill in the square for LITHIUM from the periodic table. (Pg. 141)



Atomic number tells the _____ of _____ in the _____
Atomic mass is the sum of the number of _____ plus _____

3. FOR LITHIUM Proton= \oplus , Neutron= \circ , Electron= \ominus

Number of protons= _____ (get from the atomic _____)

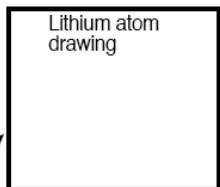
Number of electrons= _____ (same as the number of _____)

Number of neutrons: (Fill in words below)

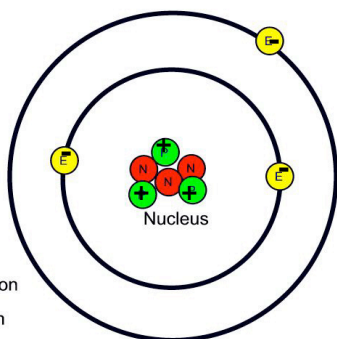
= Atomic _____ (rounded) - Atomic _____

Number of neutrons for Lithium = _____ - _____ = _____ neutrons

Draw a model of a Lithium atom, using proton, neutron, electron symbols shown above.



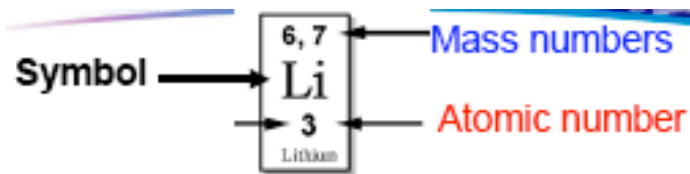
Draw model of Lithium atom here



\ominus Electron
 \oplus Proton
 \circ Neutron

What's Inside an Atom?

- **BLUE = NEUTRONS**
- **RED = PROTONS**
- **YELLOW = ELECTRONS**



A) # below symbol = atomic number

Atomic # = # of protons (reds)

B. # above the symbol = mass number

Mass number = particles inside the nucleus (reds and blues)

C. Sometimes there is more than one mass number-
Atoms can have different numbers of neutrons (blues)

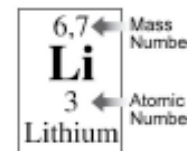
These are called isotopes.

D) What about yellows?

Yellow = electrons

Electrons equal protons

Yellow = Red



The Three Rules

- 1 # Red = Atomic Number
- 2 # Red = # Yellow
- 3 # Red + # Blue = Mass Number