
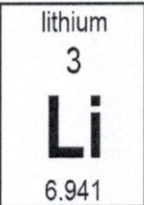
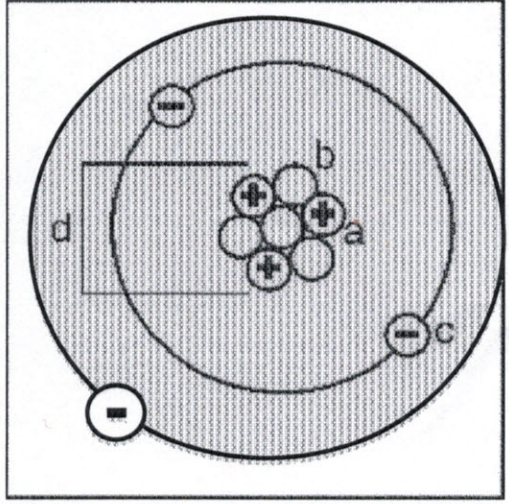


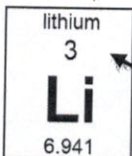
<p>Atom Composition</p> 	<ul style="list-style-type: none"> ✓ The atom is mostly _____ ✓ Protons and neutrons in the _____ ✓ The number of _____ is equal to the number of _____ ✓ Electrons in space around the nucleus called an _____ ✓ Extremely small.
<p>What is a Proton?</p> <p>(+)</p>	<ul style="list-style-type: none"> • Found in the _____ • Positive charged particles, _____ /proton • _____ than an electron • Number of _____ the atom • Number of protons is called the _____
<p>What is a Neutron?</p> <p>(0)</p>	<ul style="list-style-type: none"> • Found in the _____ • _____ charge, so called _____ /neutron • Same mass as a proton • Neutrons _____ and help _____ the nucleus
<p>What is an Electron?</p> <p>(-)</p>	<ul style="list-style-type: none"> ▪ _____ the nucleus in _____ energy levels Called the electron cloud ▪ _____ charged particles, _____ /electron ▪ (Their negative charge is attracted to the positive nucleus) ▪ _____ is so small it _____ ▪ Electrons are the _____ of _____
<p>Diagram of a Lithium (Li) Atom</p> 	<p>Color code the particles</p> <p>a. _____</p> <p>b. _____</p> <p>c. _____</p> <p>d. _____</p> <p>Electron energy _____</p> <p>Level one has _____ electrons</p> <p>Level two has _____ electron – maximum _____</p> 

Neutral Atom

ZERO Charge

- Neutral means _____
- _____ atom has _____ numbers of positive _____ and negative _____
- Ex. Lithium: (____ protons) + (____ electrons) = 0 charge = neutral atom
- Atoms are listed on the periodic table as neutral atoms

What is the Atomic Number?



- Every atom has a _____
- Atomic number = the number of _____ = the number of _____
- (remember: neutral atom the charges = 0)
- Listed on the periodic table

Mass,amu

_____ is set as the standard as having a mass of _____
 Other elements are compared to carbon-12. Using this method:

- ✓ One _____ has a mass of 1.0073 use _____ amu
- ✓ One _____ has a mass of 1.0087 use _____ amu
- ✓ One _____ has a mass of 0.0006 use _____ amu

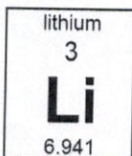
What is amu?

- ✓ _____, amu
- ✓ Simplified _____ for the mass of protons and neutrons

What is the Mass number?

- ❖ Protons and neutrons have all the mass
- ❖ _____ is found in the _____
- ❖ Simply count the number of protons + neutrons and you get the mass of an atom in amu!
- ❖ Mass number = _____ + _____

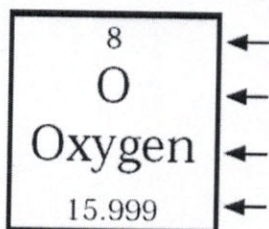
(Average) Atomic Mass



_____ mass of the _____ of an atom as found in nature. It is never a whole number.

This is the Mass listed on the periodic table for an element (atom)

Periodic Table Square Information



Summary

Use notes to complete

Particle	Location	Charge	Mass
Proton			
Neutron			
Electron			