Atoms and Molecules

ATOMS activity: Ions & Isotopes

Refer to a Periodic Table and the Key below to fill out this table for each element.

- 1. Assemble the nucleus using the proper number of large colored and white marshmallows. Stick them together with toothpicks.
- 2. Select the proper number of small colored marshmallows (all one color) as your electrons. Attach them one at a time to the nucleus with toothpicks.
- 3. Turn the lithium atom into an ion and note the information on the table.
- 4. Turn either the lithium atom or the beryllium atom into an isotope. Note the information on the table.

АТОМ	ATOMIC SYMBOL	ATOMIC NUMBER	# PROTONS	ATOMIC MASS	# NEUTRONS	# ELECTRONS
Lithium						
Beryllium						
Lithium Ion						
Isotope:						

Atomic Number	3
Atomic Symbol	Li
Name	Lithium
Atomic Mass	7

4
Be
Beryllium
9

Number of Protons = Atomic Number Number of Neutrons = Atomic Mass – Atomic Number Number of Electrons = Number of Protons Ions: Add or subtract an electron from the element Isotope: Add or subtract a neutron from the element