

Name: _____

Atoms and Molecules

ATOMS activity

Refer to a Periodic Table and the Key below to fill out this table for each element. Start with helium as your first atom.

1. Fill out the table below with the correct values.
2. Assemble the nucleus using the proper number of large colored and white marshmallows. Stick them together with toothpicks.
3. 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.

ATOM	ATOMIC SYMBOL	ATOMIC NUMBER	NUMBER OF PROTONS	ATOMIC MASS (ROUNDED)	NUMBER OF NEUTRONS (Mass – Atomic Number)	NUMBER OF ELECTRONS
Hydrogen	<i>H</i>	<i>1</i>	<i>1</i>	<i>1.00</i>	<i>0</i>	<i>1</i>
Helium						
Lithium						
Beryllium						

Atomic Number

1

Atomic Symbol

H

Name

Hydrogen

Atomic Mass

1.00794KEY**Number of Protons** = Atomic Number

(Use the large colored marshmallows for protons)

Number of Neutrons = Atomic Mass – Atomic Number

(Use the large white marshmallows for neutrons)

Number of Electrons = Number of Protons

(Use the small colored marshmallows for electrons)