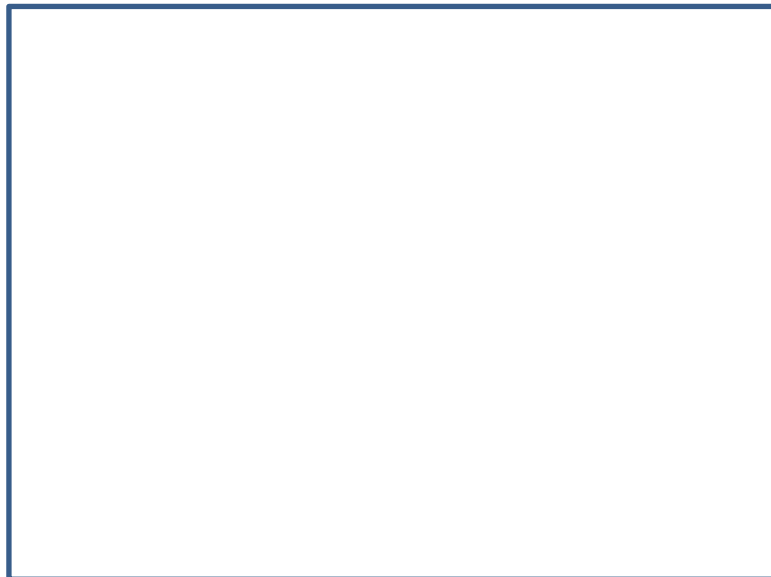


Pre-lab for Build an Atom

1. You build an atom that has the following components:

- 3 protons (P)
- 4 neutrons (N)
- 3 electrons (E)

Draw a picture of how you would build your atom below:



Circle which element this atom is on this periodic table below:

H																	He
Li	Be											B	C	N	O	F	Ne
Na	Mg											Al	Si	P	S	Cl	Ar
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe

The mass of this atom is:

- a. 3 mass units
- b. 4 mass units
- c. 6 mass units
- d. 7 mass units
- e. 11 mass units

Explain what ideas you used to choose an answer:

The charge of this atom is:

- a. 0, this is a neutral atom
- b. -3
- c. -1
- d. +1
- e. +3

2. You start with your atom:
- 3 protons
 - 4 neutrons
 - 3 electrons

You want to change your atom's properties.

Mark YES if a change will work, and mark NO if it will not work.

A. Hydrogen, Helium, Lithium, Beryllium, Boron, Carbon are all different elements.

If you want to **change the type of element** your atom is, you can either:

(circle)

- | | |
|--------------------|-----------|
| Add a proton | Yes or No |
| or Add a neutron | Yes or No |
| or Add an electron | Yes or No |

B. If you want to **change the charge** of your atom, you can either:

(circle)

- | | |
|--------------------|-----------|
| Add a proton | Yes or No |
| or Add a neutron | Yes or No |
| or Add an electron | Yes or No |

C. If you want to **change the mass** of your atom, you can either:

(circle)

- | | |
|--------------------|-----------|
| Add a proton | Yes or No |
| or Add a neutron | Yes or No |
| or Add an electron | Yes or No |