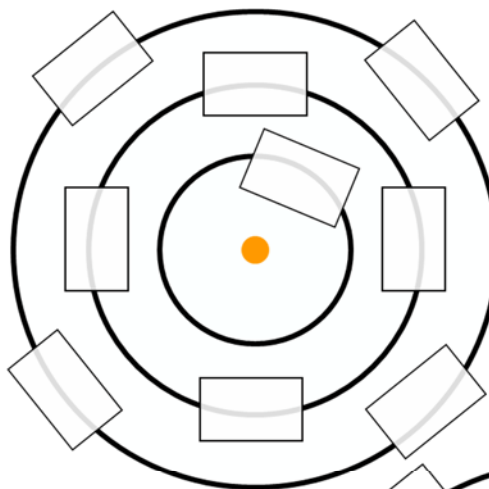


Target	1	2 (all of 1 plus)	3 (all of 2 plus)	4 (all of 3 plus)
LE 5.7 Preparedness	Does not complete formative or summative in an effortful and timely manner, is not engaged, does not arrive on time with class materials ready to learn, does not communicate when issues arise	Completes formative or summative in an effortful or timely manner, is sometimes engaged, sometimes arrives on time with class materials ready to learn, sometimes communicates when issues arise	Completes formative or summative in an effortful and timely manner, remains engaged, arrives on time with materials ready to learn, communicates when issues arise	Completes formative or summative in an effortful and timely manner, remains engaged, arrives on time with materials ready to learn, communicates when issues arise, and is reflective on strengths and challenges within your preparedness skill
LE 5.6 Precision	Recognizes the importance of products that are planned, edited, and completed with care	Attempts products that are planned, edited, and completed with care	Creates products that are planned, edited, and completed with minimal errors	Creates products that are planned, edited, and completed free from errors or need for revision
Phusikos 1	I can identify an atom	I can identify the parts of an atom in a diagram	I can draw or build a representation of an atom with atomic numbers 1-10.	I can build a representation of an atom with atomic numbers 11-18.
MP2 Atoms, Bonding	I can diagram the shell structure of an atom and demonstrate an understanding of valence electrons	(all of 1 plus) I can use the periodic table to predict properties of atoms of elements based on patterns of electrons in atoms	(all of 2 plus) I can predict and diagram bonding between atoms	(all of 3 plus) Nailed it!

Draw an Atom (Orbital Models)

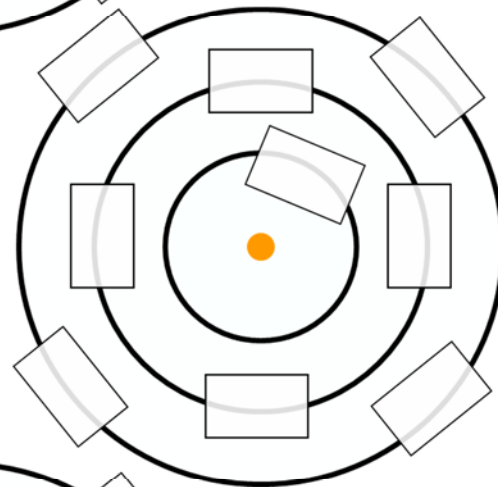
Hydrogen

Atomic Number _____
 Number of *Protons* _____
 Mass # _____
 Mass # - number of Protons = _____
 Number of *Neutrons* _____
 Number of *Electrons* _____
 # Electrons in 1st shell _____
 # Electrons in 2nd shell _____
 # Electrons in 3rd shell _____



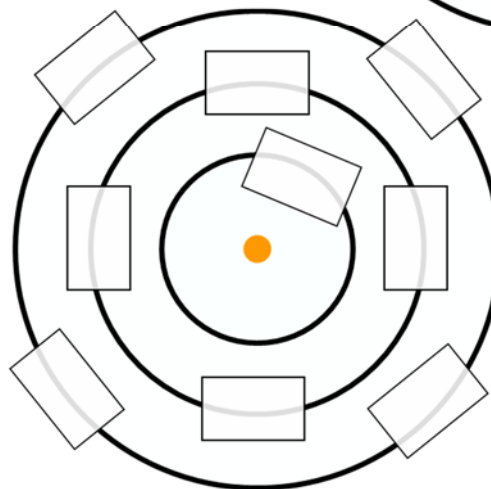
Beryllium

Atomic Number _____
 Number of *Protons* _____
 Mass # _____
 Mass # - number of Protons = _____
 Number of *Neutrons* _____
 Number of *Electrons* _____
 # Electrons in 1st shell _____
 # Electrons in 2nd shell _____
 # Electrons in 3rd shell _____



Carbon

Atomic Number _____
 Number of *Protons* _____
 Mass # _____
 Mass # - number of Protons = _____
 Number of *Neutrons* _____
 Number of *Electrons* _____
 # Electrons in 1st shell _____
 # Electrons in 2nd shell _____
 # Electrons in 3rd shell _____



Oxygen

Atomic Number _____

Number of *Protons* _____

Mass # _____

Mass # - number of Protons =

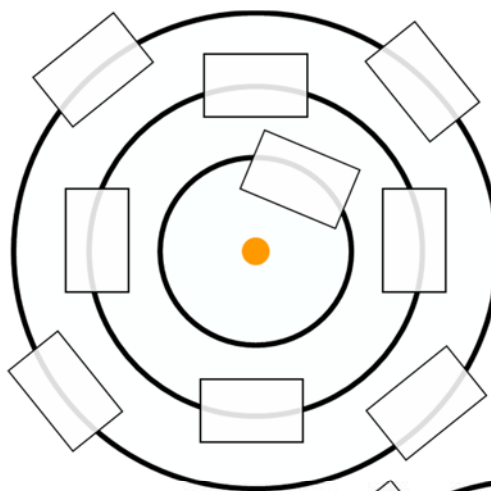
Number of *Neutrons* _____

Number of *Electrons* _____

Electrons in 1st shell _____

Electrons in 2nd shell _____

Electrons in 3rd shell _____



Sodium

Atomic Number _____

Number of *Protons* _____

Mass # _____

Mass # - number of Protons =

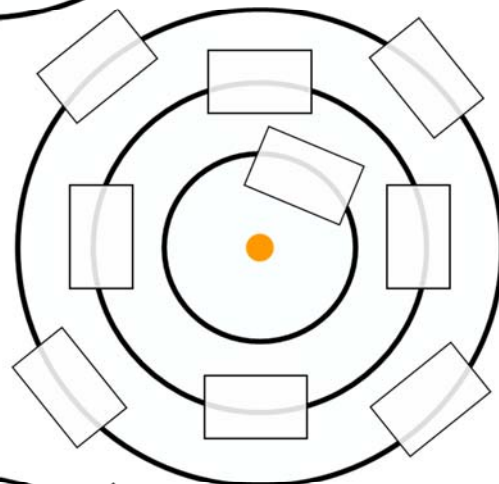
Number of *Neutrons* _____

Number of *Electrons* _____

Electrons in 1st shell _____

Electrons in 2nd shell _____

Electrons in 3rd shell _____



Aluminum

Atomic Number _____

Number of *Protons* _____

Mass # _____

Mass # - number of Protons =

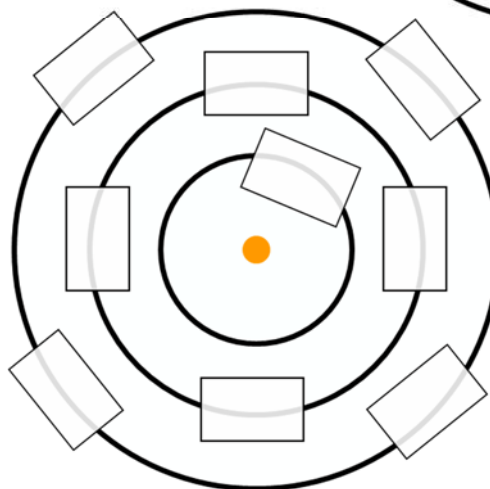
Number of *Neutrons* _____

Number of *Electrons* _____

Electrons in 1st shell _____

Electrons in 2nd shell _____

Electrons in 3rd shell _____



Chlorine

Atomic Number _____

Number of *Protons* _____

Mass # _____

Mass # - number of Protons =

Number of *Neutrons* _____

Number of *Electrons* _____

Electrons in 1st shell _____

Electrons in 2nd shell _____

Electrons in 3rd shell _____

