**Terms (Physics, *Chemistry*) Define and give page # or website where you found it.**

*Family (periodic table)*

*Atomic Mass*

*Atomic*

*Number*

*Diatomic Element*

*Valence Electrons*

*Oxidation Numbers*

*Ion*

*Isotope*

*Cation*

*Anion*

Force

Unbalanced Force

Speed

Momentum

Net Force

Gravity

*Potential Energy*

Velocity

Weight

Friction

Newton

Balanced Force

Inertia

*Kinetic Energy*

Motion

Acceleration

Mass

Action Force

Reaction Force

**Laws—Explain and give example in notes.**

Newtons First Law of Motion

(Law of Inertia)

Newtons Second Law of

Motion

Newtons Third Law of Motion

Equal and Opposite

Reactions

Law of Conservation of Mass

Equations and Units

Equation of Force, Mass, and

Acceleration

Acceleration=Netforce/ Mass

Force= Mass\* Acceleration

Momentum=Mass\*Velocity

How you can use Newtons Second

Law to find force

N and kg\*m/s^2

m/s

Speed

Velocity

**Periodic Families – In your notes give the Family number of each and name the characteristics they share in that Family**

*Alkali Earth Metals*

*Alkali Metals*

*Transition Metals*

*Boron Family*

*Carbon Family*

*Nitrogen Family*

*Oxygen Family*

*Halogens*

*Nobel Gases*

**You’ll find success through-----answer, explain, or give examples in notes.**

I can explore the relationship between mass and inertia (Newton’s 1st Law).

I can demonstrate and mathematically show the relationship between mass,

force, and acceleration. (Newton’s 2nd Law)

I will demonstrate how change in mass and force will affect acceleration

I will solve word problems with F=m x a.

I will be able to identify and illustrate the action and reaction forces.

I will be able to explain that for every action there is an equal and opposite

reaction.

I will be able to apply real world examples to Newton’s 3rd Law.

I will relate isotopes and average atomic mass in conceptual circumstances,

(such as comparisons to grades and grade averages).

I will identify and write symbols and isotopic notations for various isotopes,

(Carbon-12, C-12, 12C. etc.).

I will identify where metals, nonmetals, and metalloids are located on the

periodic table.

I will identify oxidation numbers, based on their location in Groups 1, 2, and 13-18, including the elements