**WEATHER**

Cold front

Warm front

High Pressure

Low Pressure

Wind- caused by Sun’s differential heating of the Earth’s surface

Hurricanes-warm water feeds this type of system

Seasons-tilt of Earth causes different latitudes to experience different seasons based on their relative position to the Sun

**LUNAR INFLUENCES**

Celestial bodies including the Sun and moon influence tides on Earth

Spring tides (when the Sun, Earth, and Moon are aligned) causes the strongest tides as well as Lunar and Solar Eclipses)

New moon-Moon is located between the Sun and Earth and the side facing Earth is unlit

Full Moon- Earth is between the Sun and Moon and the side of the Moon facing Earth is illuminated

**CHEMISTRY**

Chemical properties- Groups/Families (columns) share similar chemical properties based on their shared number of valence electrons

Atomic number- identifies the specific element and is the same as the number of protons

Reactants are on the left side of an equation AND Products are on the right side of the equation

Law of Conservation – mass of all atoms is conserved meaning that the number of elemental atoms in the reactant must equal the number of atoms of that specific element in the products



Two molecules of H2O, each containing two atoms of hydrogen and one atom of oxygen. Thus, 2H2O (read "two molecules of H2O") contains 2  2 = 4 H atoms and 2  1 = 2 O atoms as seen in the art shown below. Because there are also 4 H atoms and 2 O atoms on the left side of the equation, the equation is balanced.