

8th Grade Science STAAR Review

Cheat Sheet

Matter & Energy

Subatomic Particles

Protons	Neutrons	Electrons
Positive	Neutral	Negative
1 AMU	1 AMU	0 AMU
Nucleus	Nucleus	Electron Cloud



$A = P + N$
Atomic Number = 12
Protons = 12
Electrons = 12

$M = A - Z$
Mass = 24
Atomic Number = 12
 $24 - 12 = 12$ NEUTRONS

Magnesium is found in group 2, period 3 so that means it will have 2 Valence Electrons and 3 Electron Shells.

2 Valence Electrons will make it very reactive

Group 1, 6, 7 highest reactivity

Group 8 is unreactive



atomic number (the small number to the left of the element symbol): 2 atoms of Carbon or 12 atoms of Oxygen react - each oxygen has a 2 before the coefficient and subscript when they belong to the water product.

Monatomic (single) Lanthan Group: 3 Monatomic on the Periodic Table (Carbon, Hydrogen, Oxygen)

Molecular = diatomic as most of compounds (the big number's coefficient) is molecule of 2, 3, 4, and 8 molecules of 8.

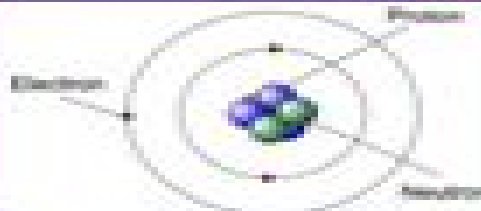
Compound that is made of 2 or 3 atoms together. Examples: H_2O and CO_2 .

Science

1. Study it or observe it directly
2. Gather information and physical properties

Example

1. Study it or observe it directly
2. Gather information



Metallic: good conductors, solid, malleable, luster

Nonmetallic: not good conductors, brittle or gases

Metalloids: share properties of both metals and nonmetals

Force, Motion, & Energy

Newton's 3 Laws of Motion

1. **Law of Inertia:** An object at rest stays at rest and an object in motion stays in motion unless acted on by an external force.
2. **Force & Acceleration:** The more mass an object has the more force needed to accelerate it ($F=ma$)
3. **Action-Reaction:** For every action there is an equal and opposite reaction.



Action
Reaction
Reaction



Action
Reaction
There is no reaction if the push is too small.

Speed: The distance and object travels in a certain amount of time.

Velocity: Speed in a certain direction.

Acceleration: When an object, speeds up, slows down, or changes direction. (A change in velocity).

Distance Time



Velocity Time



Example Triangles



Middle School Science Staar Review Cheat Sheet

RJ Shavelson



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