

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

$82 - A = Z$

Neutrons = 12

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's 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.

Molecules: Oxygen (2 atoms), Carbon (2 atoms), Water (2 atoms), Hydrogen (2 atoms)

Molecules = 4 molecules of water or 4 molecules of H_2O (2 molecules of H_2 and 1 molecule of O_2)

Compound that is made of 2 or more different elements together. Example: H_2O and CO_2 .

Science

1. Study it or observe it directly

2. Infer (chemical and physical) properties

Example

1. Study it or observe it directly

2. Infer (chemical and physical) properties



Metals: good conductors, solid (except Hg), malleable

Nonmetals: not good conductors, brittle or gases

Metals: share properties of both metals and nonmetals

Force, Motion, & Energy

Newton's 3 Laws of Motion

1. 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



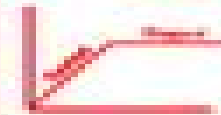
Action
Reaction
There is no force of the ground.

Speed: The distance an 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



Science Staar Category Cheat Sheet

AW Rasmussen



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