

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 after the coefficient and subscript when they belong to that water element

Monomers: organic carbon compounds = 2 Monomers on the Reactant Side (Carbon, Hydrogen, Oxygen)

Molecules = compounds as most all compounds (the big number's coefficient) = molecule of C_2H_6 and 5 molecules of O_2

Compounds that contain carbon, hydrogen, oxygen
Example: H_2O and CO_2

Science

- Study it or observe it
- Understand and physical properties

Formula

- Study it or observe it
- Understand it



Metals: good conductors, solid, malleable, luster

Nonmetals: not good conductors, brittle or gases

Metals: share properties of both metals and nonmetals

Force, Motion, & Energy

Newton's 3 Laws of Motion

- Every object at rest stays at rest and every object in motion stays in motion unless acted on by an external force.
- Force & Acceleration: The more mass an object has the more force needed to accelerate it ($F=MA$)
- 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 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



Middle School Science Staar Review Cheat Sheet

Mega Exam Secrets Test Prep

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the 'Mega Exam Secrets Test Prep' text.

Middle School Science Staar Review Cheat Sheet:

Embracing the Track of Expression: An Psychological Symphony within **Middle School Science Staar Review Cheat Sheet**

In a world taken by screens and the ceaseless chatter of quick connection, the melodic splendor and mental symphony created by the published term frequently diminish in to the backdrop, eclipsed by the relentless sound and disturbances that permeate our lives. However, located within the pages of **Middle School Science Staar Review Cheat Sheet** a wonderful literary treasure filled with raw emotions, lies an immersive symphony waiting to be embraced. Crafted by a masterful musician of language, this fascinating masterpiece conducts visitors on a mental trip, skillfully unraveling the hidden melodies and profound affect resonating within each carefully crafted phrase. Within the depths with this emotional analysis, we shall explore the book is main harmonies, analyze its enthralling publishing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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