

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

$82 - A = Z$
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 numbers (the small number to the right of the element symbol): 2 atoms of Carbon or 12 atoms of Oxygen react - each oxygen has a 2 in the coefficient and subscript when they belong to that water molecule.

Molecules: oxygen (2 atoms), water (2 atoms), carbon dioxide (3 molecules)

Molecules = 12 atoms in total of oxygen (the big number's coefficient) 1 molecule of C_2H_6 and 5 molecules of O_2

compounds that contain carbon, hydrogen, oxygen, hydrogen, H_2O and CO_2 .

Science

1. Study it or understand it

2. Understand it and physical properties

Formula

1. Study it or understand it

2. Understand it and physical properties



Metallic: good conductors, solid, malleable, luster

Nonmetallic: not good conductors, brittle or gases

Metallic: share properties of both metals and nonmetals

Force, Motion, & Energy

Newton's 3 Laws of Motion

1. Every object at rest stays at rest and every object in motion stays in motion unless acted upon 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 person falls

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



Science Staar Category Cheat Sheet

Xiang Xie



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Table of Contents Science Staar Category Cheat Sheet

1. Understanding the eBook Science Staar Category Cheat Sheet
 - The Rise of Digital Reading Science Staar Category Cheat Sheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Science Staar Category Cheat Sheet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Science Staar Category Cheat Sheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Science Staar Category Cheat Sheet

- Personalized Recommendations
- Science Staar Category Cheat Sheet User Reviews and Ratings
- Science Staar Category Cheat Sheet and Bestseller Lists
- 5. Accessing Science Staar Category Cheat Sheet Free and Paid eBooks
 - Science Staar Category Cheat Sheet Public Domain eBooks
 - Science Staar Category Cheat Sheet eBook Subscription Services
 - Science Staar Category Cheat Sheet Budget-Friendly Options
- 6. Navigating Science Staar Category Cheat Sheet eBook Formats
 - ePub, PDF, MOBI, and More
 - Science Staar Category Cheat Sheet Compatibility with Devices
 - Science Staar Category Cheat Sheet Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Science Staar Category Cheat Sheet
 - Highlighting and Note-Taking Science Staar Category Cheat Sheet
 - Interactive Elements Science Staar Category Cheat Sheet
- 8. Staying Engaged with Science Staar Category Cheat Sheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Science Staar Category Cheat Sheet
- 9. Balancing eBooks and Physical Books Science Staar Category Cheat Sheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Science Staar Category Cheat Sheet
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Science Staar Category Cheat Sheet
 - Setting Reading Goals Science Staar Category Cheat Sheet
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Science Staar Category Cheat Sheet

- Fact-Checking eBook Content of Science Staar Category Cheat Sheet
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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