

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

12
Mg
24.305

A = P + E
Atomic Number = Z

Protons = 12
Electrons = 12

M = A - P
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 unreactive



Water Molecule (The small circle is the right of the element Oxygen, 2 circles of Oxygen or 2O atoms, all together that's both oxygen to make the molecule and subscript when they belong to the water element)

Molecule Oxygen (Larger Group) 2 Molecules on the bottom side (Carbon, Hydrogen, Oxygen)

Molecule 2 molecules of each of oxygen (The big number's Oxygen) 2 molecule of C_2H_6 and 2 molecule of O_2

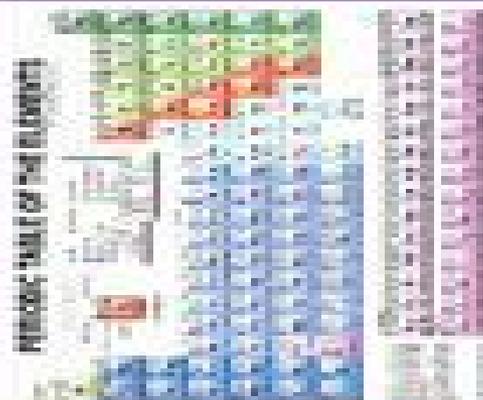
Compound that is made of two different elements together Oxygen, H_2O and CO_2 .

Science

- Study of natural phenomena
- Understanding and physical properties

Consists

- Study of an organism's traits
- Understanding how



Metals - good conductors, solid, malleable, luster

Metalloids - not good conductors, brittle or glass

Nonmetals - share properties of both metals and metalloids

Force, Motion, & Energy

Newton's 3 Laws of Motion

- States the object at rest stays at rest and the object in motion stays in motion unless acted on by an unbalanced 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
Action/acceleration
There is no reaction to the jump force

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

Velocity - Speed in a certain direction.

Acceleration - When an object, speed up, slow down, or change direction. (A change in velocity)

Distance Time



Velocity Time



8th Grade Science Staar Answer Sheet

R Barnett



8th Grade Science Staar Answer Sheet:

The book delves into 8th Grade Science Staar Answer Sheet. 8th Grade Science Staar Answer Sheet is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into 8th Grade Science Staar Answer Sheet, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to 8th Grade Science Staar Answer Sheet
 - Chapter 2: Essential Elements of 8th Grade Science Staar Answer Sheet
 - Chapter 3: 8th Grade Science Staar Answer Sheet in Everyday Life
 - Chapter 4: 8th Grade Science Staar Answer Sheet in Specific Contexts
 - Chapter 5: Conclusion
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 5. In chapter 4, this book will scrutinize the relevance of 8th Grade Science Staar Answer Sheet in specific contexts. This chapter will explore how 8th Grade Science Staar Answer Sheet is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about 8th Grade Science Staar Answer Sheet. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of 8th Grade Science Staar Answer Sheet.

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