

8th Grade Science STAAR Review

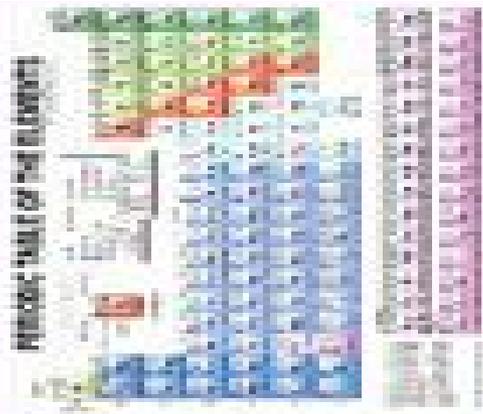
Cheat Sheet

Matter & Energy

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

- Solids**
1. Order of particles decreases
 2. Interchemical and physical properties

- Liquids**
1. Order of particles decreases
 2. Interchemical and physical properties



- Metallic: good conductors, solid, malleable, luster
- Nonmetallic: not good conductors, brittle or gas
- Metalloids: share properties of both metals and nonmetals

Mg (Magnesium)

Atomic Number = 12

Protons = 12

Electrons = 12

Mass Number = 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



Water: 2 oxygen (the small number to the right of the element symbol) 2 atoms of oxygen or 22 atoms of oxygen total - each oxygen is double the coefficient and subscript when they belong to the water element

Molecules: oxygen (smaller groups) 2 molecules on the bottom side, carbon, hydrogen (bigger)

Molecules: 2 molecules of water or oxygen (the big number's coefficient) 2 molecule of C_2H_6 and 2 molecule of H_2

Compound: that is when different particles together. Example: H_2O and CO_2

Force, Motion, & Energy

Newton's 3 Laws of Motion

1. States the object at rest stays at rest and the object in motion stays in motion unless acted on by an unbalanced 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.

Force

Acceleration

Reaction

Action

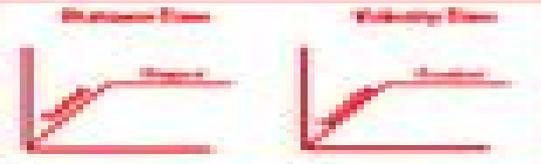
Equal opposite force

There is no friction in the picture

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)



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Minjie Lin



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Reading Comprehension Frank Schaffer Publications, Helene Chirinian, 1996 Fiction and nonfiction information combine in a dynamic series that encourages both eager and reluctant readers to dive into the reading scene *Science*, 2009 Handbook of Research on Science Literacy Integration in Classroom Environments Tai, Chih-Che, Moran, Renee M. R., Robertson, Laura, Keith, Karin, Hong, Huili, 2018-10-12 Secondary schools are continually faced with the task of preparing students for a world that is more connected advanced and globalized than ever before In order to adequately prepare students for their future educators must provide them with strong reading and writing skills as well as the ability to understand scientific concepts The Handbook of Research on Science Literacy Integration in Classroom Environments is a pivotal reference source that provides vital research on the importance of cross curriculum discipline connections in improving student understanding and education While highlighting topics such as curriculum integration online learning and instructional coaching this publication explores practices in teaching students how to analyze and interpret data as well as reading writing and speaking This book is ideally designed for teachers graduate level students academicians instructional designers administrators and education researchers seeking current research on science literacy adoption in contemporary classrooms

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