

8TH GRADE SCIENCE

SLAMM Review Cheat Sheet

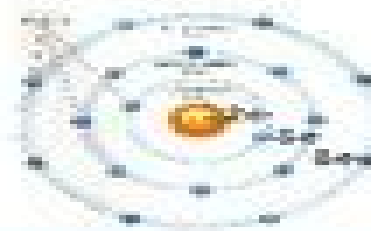
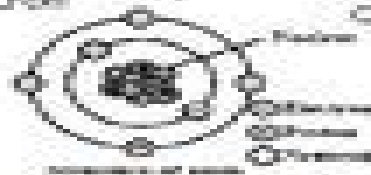
ATOMS & SUBATOMIC PARTICLES

Name: Charge: Location:

Proton + Nucleus

Neutron neutral Nucleus

Electron - Electron Cloud



Oxygen
 O
 Atomic Number: 8
 Element Symbol: O
 Period: 2
 Group: 16

Atomic # = # of Protons = # of Electrons

- Periods
- 1 letter
- Period # = # of electron shells
- Number chemical mass

PERIODIC TABLE



Mass = atomic # - # of neutrons
 Includes how the atomic mass is calculated

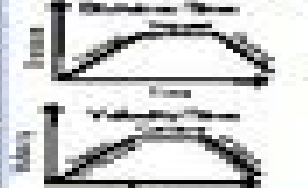
- Groups
- 18 total
- 1st row
- 1st column
- 1st row and 1st column
- 1st row and 1st column
- 1st row and 1st column

FORCES, MOTION & ENERGY

Balanced Forces:
 Net Force = ZERO
 No movement

Unbalanced Forces:
 Moves in direction of greater force

GRAPHS



FORMULA TRIANGLES

Speed

$$\begin{array}{c} d \\ \hline t \times s \\ \hline \end{array}$$

Force

$$\begin{array}{c} F \\ \hline m \times a \\ \hline \end{array}$$

Density

$$\begin{array}{c} M \\ \hline V \times D \\ \hline \end{array}$$

DEFINITIONS

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).

NEWTON'S 1ST LAW

Law of Inertia

An object at rest stays at rest and an object in motion stays in motion unless acted upon by an unbalanced force.

- Examples:
- Kicking a ball that is at rest.
 - Pushing a paper out from under a coin that is about to drop.



NEWTON'S 2ND LAW

Law of Force & Acceleration

The more mass an object has the more force needed to accelerate it. $F=ma$

- Examples:
- An 18 wheeler would cause more damage than a compact car.
 - Pushing an empty box compared to a full box of books.



NEWTON'S 3RD LAW

Law of Action & Reaction

For every action there is an equal and opposite reaction.

- Examples:
- Space shuttle pushing off from the ground.
 - A foot pushing back wards as you step onto a dock.



Science 8th Grade Staar Study Guide

Jianjun Gao

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

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