# Physical Science Sem 1 Unit 1 Study Packet: Science and Engineering

Quiz 1.1.4: Introduction to Physical Science Key Terms

Acceleration: The rate of change in the velocity of an object, in mathematical terms, acceleration equals change in velocity divided by change in time.

Area: A measure of the size of an object's surface.



Density: The amount of matter in a given space (volume). To calculate density, divide the mass of a substance by its volume.



Displacement: The length of the shortest path from start to finish, coupled with a direction.

Energy: The ability to cause change in matter. It is measured in Joules, or J. When energy is

transferred to an object, that object will start to move.

For example: 1 J = 1 kg m<sup>2</sup>/s<sup>2</sup>

Force: A push or pull. Force is the combination of grams and m/s<sup>2</sup>, and is measured in newtons. A newton is a derived unit that you get by multiplying mass by acceleration. A magnetic pull, weight and gravity are types of forces.

International System of Units: A system of units that is based on multiples of 10. SI units are

also called metric units.

Prefix	Symbol	Meaning ("base unit times")
kilo-	k	1000
deci-	d	0.1

# **Physical Science Apex Study Guide**

**Connie Wells, Hugh Henderson** 

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