

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: $1 \text{ J} = 1 \text{ kg} \cdot \text{m}^2/\text{s}^2$

Force: A push or pull. Force is the combination of grams and m/s^2 , 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
dec-	d	0.1

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