

Physical Science 1st Semester Final – Study Guide

Define / Describe displacement

Describe the difference between instantaneous speed and average speed

Calculate average speed

Define acceleration

Calculate acceleration

Define inertia

Describe Newton's three laws of motion

Define air resistance

Define centripetal force

Define action-reaction forces

Describe the difference between balanced and unbalanced forces

Define momentum

Calculate momentum

Describe the law of conservation of momentum

Know the value for acceleration due to gravity

Calculate force when mass and acceleration are known

Define hypothesis

Describe the difference between independent and dependent variables

Define constant

Define experiment

Define theory

Know how to use the ladder method to convert units in the metric system

Know the SI units for different types of measurements

Describe the factors that affect the gravitational force

Write a large or small number in scientific notation

Analyze a time- distance or a time-velocity graph

Describe the difference between static and sliding friction

Describe different types of energy and the transformations that take place

Define work Calculate work

Define power Calculate power

Describe the law of conservation of energy

Define kinetic, mechanical, and potential energy

Calculate kinetic, potential and mechanical

Electricity (use outline)