

Physics Study Guide

Forces & Motion

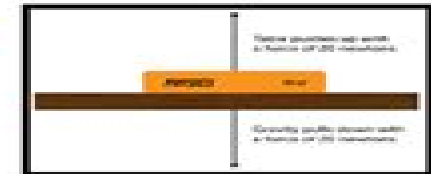
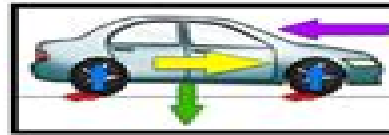
Force = Any push or pull on an object.

Balanced Forces = No Movement.

Unbalanced Forces = Movement.

Net Force = The sum of all forces acting on an object.

Normal Force = The contact force. (Opposite direction gravity on a flat surface.)



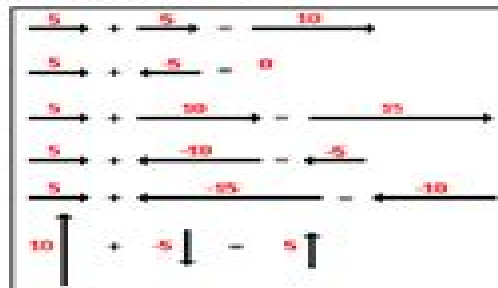
Vectors vs. Scalars

Vectors have Magnitude and Direction

Scalars have Magnitude and NO Direction

Speed is a Scalar

Velocity is a Vector



Speed vs. Velocity

Speed = Distance divided by Time (Scalar)

Velocity = Displacement divided by Time (Vector)



Acceleration

Speeding up.

Slowing down.

Changing direction.

$$a = \frac{V_f - V_i}{t}$$

Newton's Laws

1st Law = Objects at rest will remain at rest object in motion will remain in motion (Inertia)

Momentum = Measures how difficult it is to change the inertia of an object.

Depends on the object's Mass and Velocity.

2nd Law = Force equals mass times acceleration. (An object with more mass will be harder to accelerate)

3rd Law = For every action there is an equal and opposite reaction.

Friction

Any force that resists motion when two surfaces are touching each other.

Friction can produce heat.

Lubricants reduce friction.

Friction is always in the opposite direction of the driving force.

Gravity

The force of attraction between any two objects.

The greater the mass of an object the more gravitational pull it has.

The closer two objects are to each other the more they are attracted to each other.

Acceleration due to Gravity = 9.8 m/s

(Every second an object falls it will move 9.8 m/s faster.)

Terminal Velocity

When air resistance stops a falling object from accelerating.

Types of Friction

Sliding = Surfaces rubbing together.

Static = Surfaces in contact but not moving.

Rolling = Wheels

Centripetal Force

When an object is in a circular motion the centripetal force always points to the **center**.



Secular Motion Physics Study Guide

Ashish V Rajwade



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