

Non-Contact Forces & Electromagnetism Quiz: Tuesday, October 17, 2017

Non-Contact Forces

- What do all not-contact forces have in common?

Gravitational Force

- What two factors affect the strength of gravity between two objects?
- Explain the difference between **mass** and **weight**. Know what would happen to each if you went to another planet or the moon. (Short answer question!)
- How does gravity affect the motion of objects?
- Why do objects in space orbit one another? (What force is involved?)
- Explain the "acceleration due to gravity" picture (apple falling from the tree or rock being dropped off the ledge)

Magnetic Force

- What happens to magnetic force if you increase/decrease the distance between two magnetic objects?
- Where is a magnet the strongest? Where is it the weakest?
- Recognize the magnetic field diagrams for opposite poles and for like poles
- What happens when two like poles interact? What happens when opposite poles interact?
- Between what kinds of objects can magnetic force be exerted?

Electrical Force

- What happens to electrical force if you increase or decrease the distance between charged particles?
- Recognize the electrical field diagrams for opposite charges and for like charges
- How do objects become charged? What happens to the number of electrons?
- What happens when 2 like charges interact? What happens when opposite charges interact?
- Between what kinds of objects can electrical force be exerted?

Essential Vocabulary:

(This is not a vocabulary test, but you should understand the following terms and be able to apply them!)

Magnitude

Force

Newton

Net Force

Balanced Forces

Unbalanced Forces

Gravitational Force (Gravity)

Air Resistance/Drag

Magnetic Force (Magnetism)

Poles: North and South

Attract

Repel

Electrical Force

Static Electricity

Charge: Positive and Negative

Electrons/Protons

Contact Force

Non-Contact Force

Mass

Weight

Field

Distance

Gravitational Field

Magnetic Field

Electric Field