

# Mechanics

**Enduring Understanding** - Simple harmonic motion is motion that repeats about a point of stable equilibrium.

## Essential Questions

- 1. Is the choice of fulcrum important?
- 2. What is the relationship between Newton's Law of Universal Gravitation, NLUG, and Kepler's Law of Periods?
- 3. Where do gravitational fields exist?
- 4. Are kinetic and gravitational potential energies positive or negative?
- 5. What do all simple harmonic motion derivations have in common ?



© 2014 David Carroll

## Statics, Gravity and SHM

