

Mechanics

Enduring Understanding- The motion of an object or system depends on the point of application of a force or forces.

Essential Questions

1. What's are connections between translational and rotational motion?
2. How does a net force applied away from the center of mass of an object affect its acceleration?
3. Can the moment of inertia of an object change?
4. Is there a limit to the translational acceleration a torque can produce?
5. Can an object posses translation kinetic energy without rotational kinetic energy; rotational kinetic energy with translational kinetic energy?
6. What is the relationship between Newton's Third Law of Motion and angular momentum?

Rotation

