

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 possess translational 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?



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Rotation

