

### Rotation

#### Enduring Understanding

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

#### Essential Questions

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



### Rotation AP Physics 1/2

