

## Rotational Motion Ideas

Idea 1-*Angular Kinematics* (lots of definitions, motion equations, linear to angular conversions)

Idea 2-*Torque* (calculating torque, torque is angular analog to force)

Idea 3-*Rotational Inertia or Moment of Inertia* (mass and how it's distributed, analogous to mass or inertia)

Idea 4-*Rotational Dynamics* (Newton's 2nd Law for rotational motion, putting together torque, moment of inertia, and angular acceleration)

Idea 5-*Rotational Equilibrium* (balancing torques for objects in static equilibrium, blue ball of death)

Idea 6-*Angular Momentum* (calculating angular momentum, conservation of angular momentum)

Idea 7-*Rotational Kinetic Energy* (calculating rotational kinetic energy, conservation of energy with objects rolling down ramps)