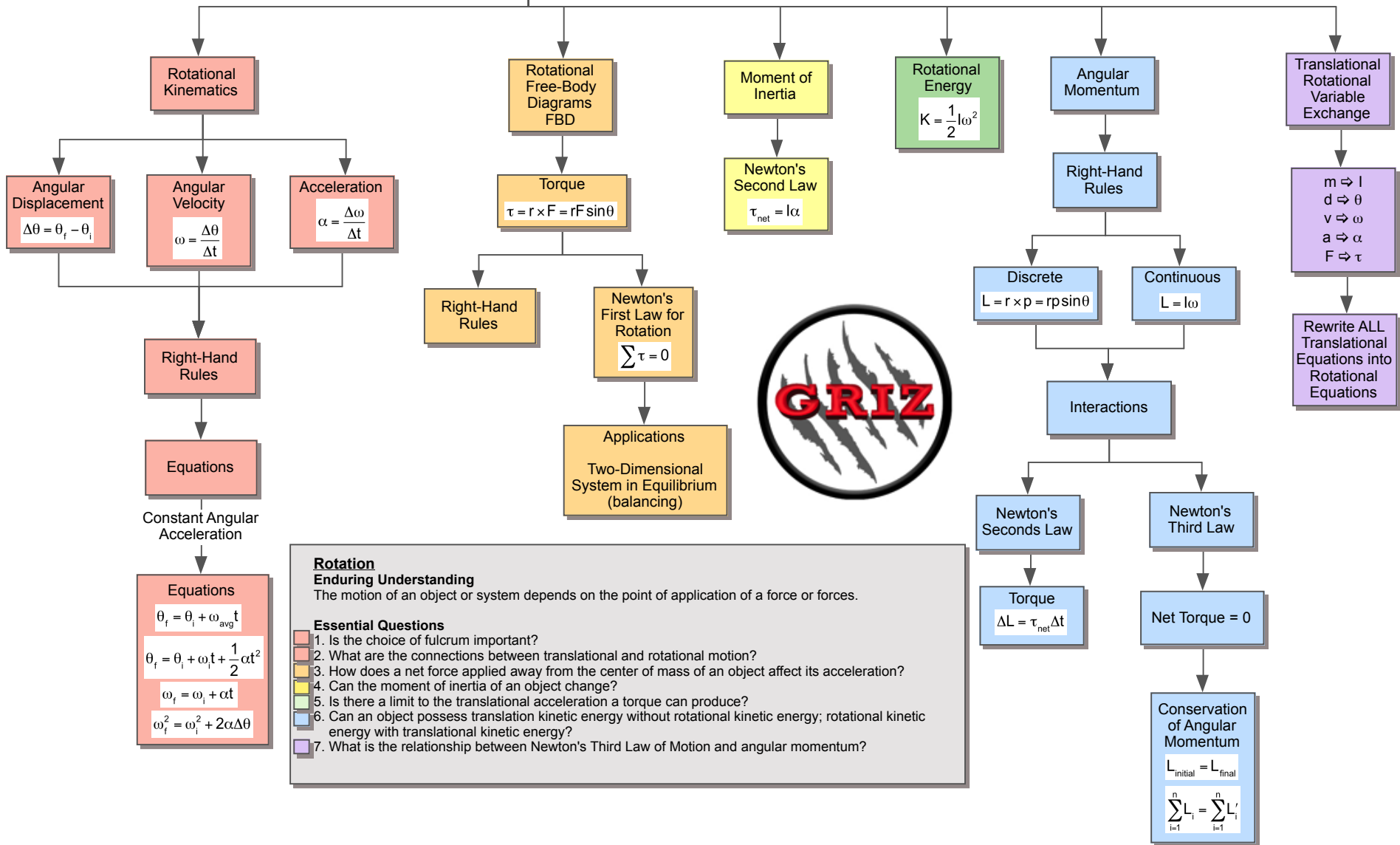


Rotation
AP Physics 1/2



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?