Physics Unit 4 Study Guide

* Rotational Inertia
* Torque
  + Calculations with torque
* Center of mass vs center of gravity
* Centripetal vs centrifugal force
  + Calculations with centripetal force
* Angular momentum
  + Calculations with angular momentum
* Law of universal gravitation
  + Calculations with the law of universal gravitation
* Inverse-square law
* Tides
* Black hole 🡪 basic information from the textbook
* Projectile
* Satellite
* Ellipse
  + How is an elliptical orbit created?
  + What speed must it go past to be in an elliptical orbit? What speed must it be below?
* Circular Orbit
  + Speed required
* Kepler’s three laws – On Planetary Motion
* Escape speed