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