**Chapter 6 4-Minute Drill**

Centripetal force in terms of r and v

Centripetal acceleration in terms of r and v

Tension in a string keeping mass m moving in horizontal circles of radius r

Tension in a string keeping mass m moving in vertical circles of radius r (top of circle)

Tension in a string keeping mass m moving in vertical circles of radius r (bottom of circle)

Gravitational force between two bodies m1 and m2

Acceleration due to gravity g in terms of a planet’s mass M and radius R

Velocity of an object in a circular orbit with radius R around a planet of mass M.

Kepler’s Law relating the period and average orbital radius of a body in orbit

Kepler’s Law relating the periods and average orbital radii axis of two bodies orbiting a common larger body.