

Physics final study guide:

Uniform circular motion:

- centripetal ("center-seeking") or radial acceleration points towards the center of the circle.
- $a = v^2/r$ $f = ma = m(v^2/r)$
- For an object to be in uniform circular motion, **there must be a net force acting on it radially inwards**. This can be any one of the forces we have already encountered: tension, gravity, normal force, friction
- If an object is moving in a circular path but at varying speeds, it must have a tangential component to its acceleration as well as the radial one.

Work:

- The kinetic energy is $\frac{1}{2} mv^2$. The mass and the velocity squared will always be positive, so **KE must always be positive**.
- Consider the work done by gravity to make the stone fall distance d : $\Delta KE = W_{\text{net}} = F d \cos\theta$ $\Delta KE = mg d$ Thus, **the stone with the greater mass has the greater KE, which is twice as big for the heavy stone**
- **All freely falling objects fall at the same rate, which is g** . Since the acceleration is the same for both, and the distance is the same, then the final speeds will be the same for both stones.
- $F d = W_{\text{net}} = \Delta KE = 0 - \frac{1}{2} mv^2$ thus: $|F| d = \frac{1}{2} mv^2$ Therefore, if the speed doubles, the stopping distance gets four times larger. (BRAKING DISTANCE)

Conservation of energy:

- The work done by a conservative force on an object that is moved from point A to point B is independent of the path.
- Conservative forces: gravity, spring, electrostatic
- Non-conservative forces: friction, drag
- the negative of the work done by gravity when the object moves from height y_1 to y_2
- In general, we define the change in potential energy associated with a conservative force F as the negative of the work done by that same force.

Physics Final Study Guide

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