

Rotational Kinetic Energy

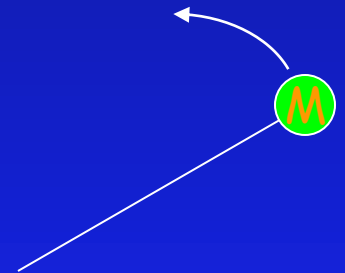
- Consider a mass M on the end of a string being spun around in a circle with radius r and angular frequency ω [demo]

→ Mass has speed $v = \omega r$

→ Mass has kinetic energy

» $K = \frac{1}{2} M v^2$

» $= \frac{1}{2} M \omega^2 r^2$



- **Rotational Kinetic Energy** is energy due to circular motion of object.