

2nd Law of Motion

Force causes acceleration

$$a = \frac{F_{\text{net}}}{m}$$

2nd Law of Motion (Rotational Version)

Torque causes angular acceleration

$$\alpha = \frac{\tau_{\text{net}}}{I}$$

angular accel

net Torque

Rotational Inertia

how far out the mass is from the pivot

Mass closer in = easier to change rotation
Mass farther out = tougher to change rotation

Send mass outward, angular velocity slows down



Pull mass inward, angular velocity increases

