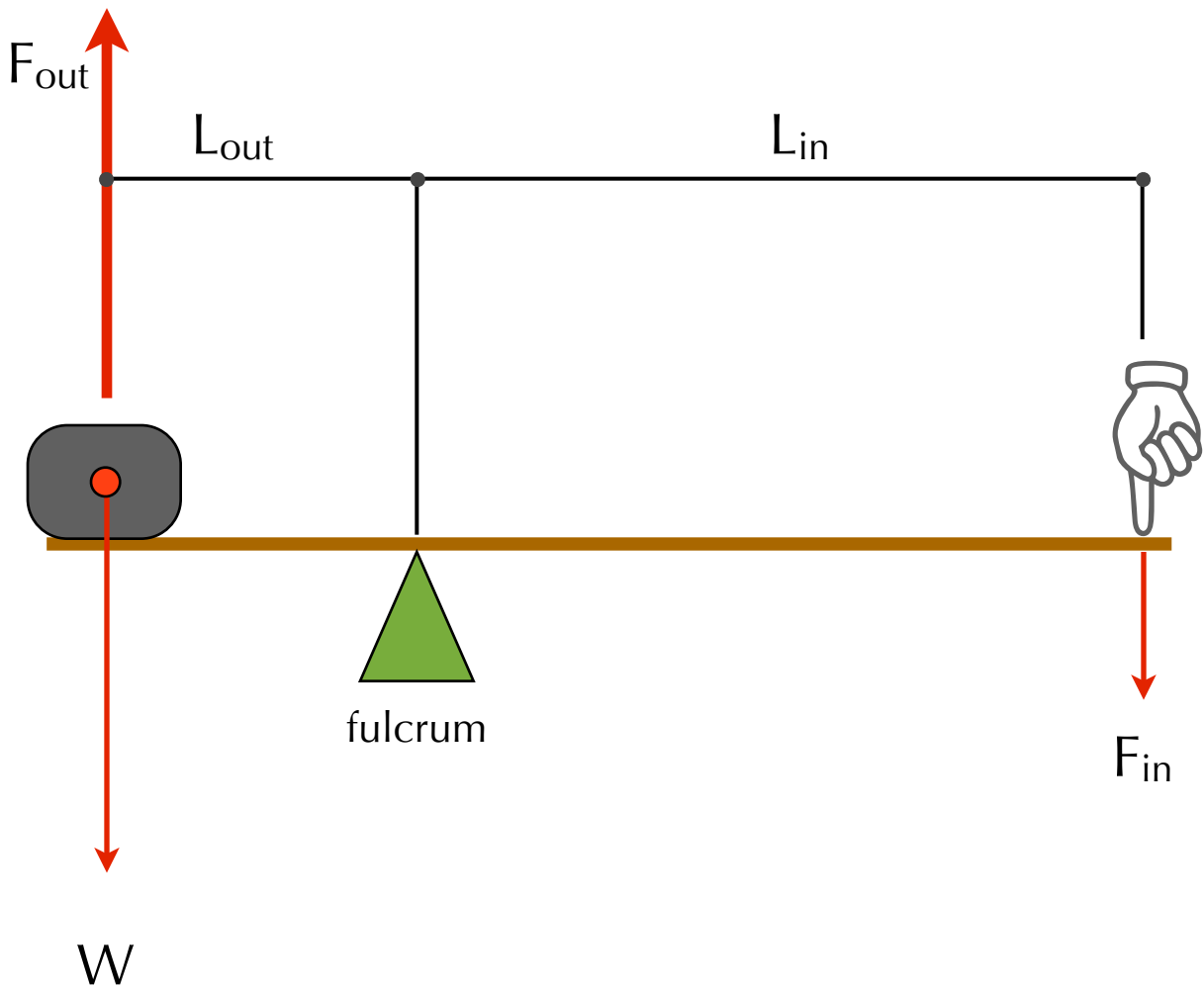


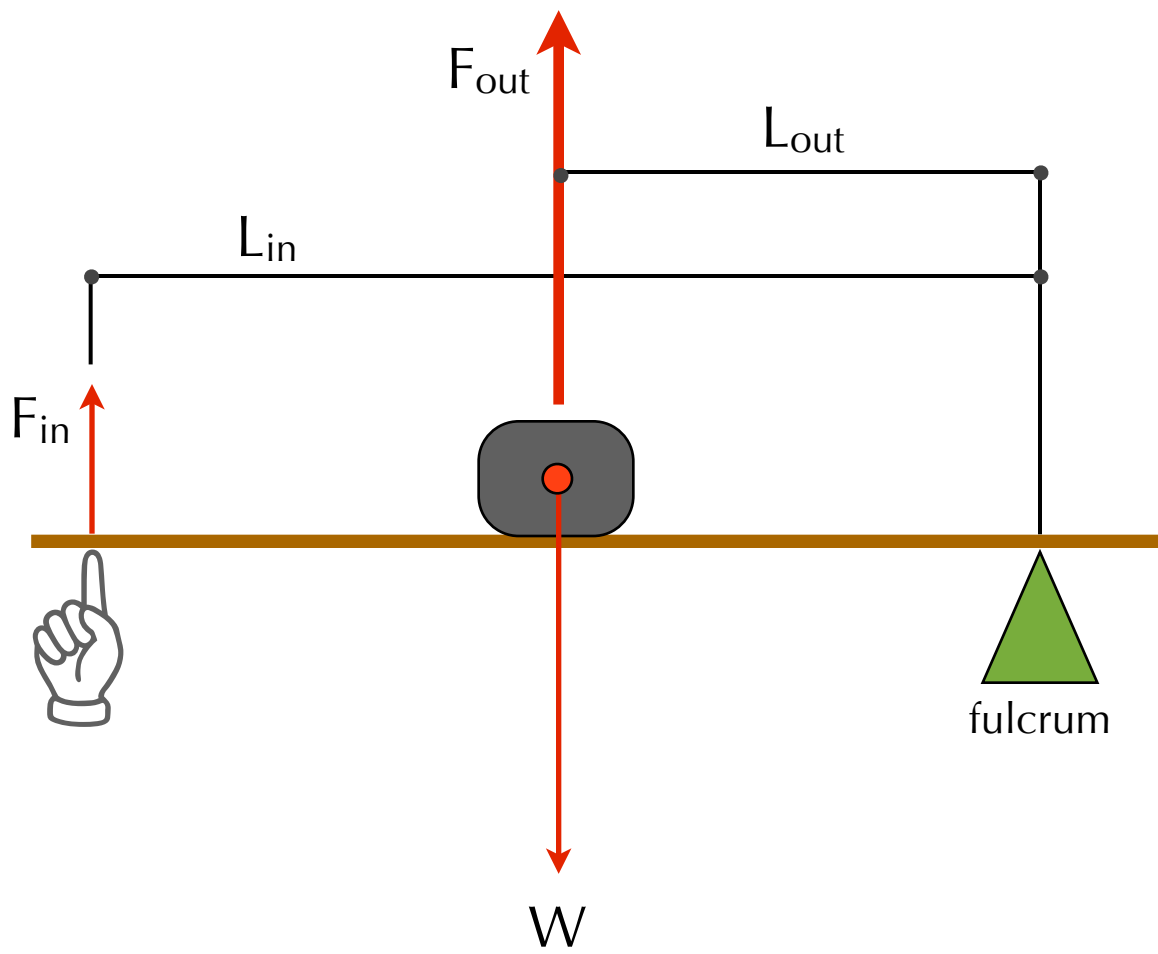
In order for a lever to maintain equilibrium

$$F_{in} \times L_{in} = F_{out} \times L_{out}$$

Class 1



Class 2



$$F_{\text{in}} \bullet L_{\text{in}} = F_{\text{out}} \bullet L_{\text{out}}$$

$$\frac{F_{\text{out}}}{F_{\text{in}}} = \frac{L_{\text{in}}}{L_{\text{out}}}$$

$$\text{IMA} = \frac{L_{\text{in}}}{L_{\text{out}}}$$

Class 3

