

2nd Law

$$F_{\text{net}} = ma_{\text{net}}$$

Add all forces = m (net acceleration)

$$F_{\text{applied}} - F_g = ma_{\text{net}} \quad \begin{array}{l} \text{"final acceleration"} \\ \nearrow \\ \text{Sort of} \end{array}$$

$$F_{\text{applied}} = F_g + ma_{\text{net}}$$
$$mg + ma_{\text{net}}$$
$$m(a+g)$$

pg 98 + 99

Apparent Weight