

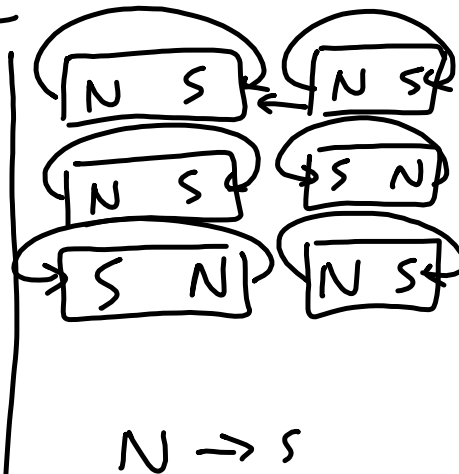
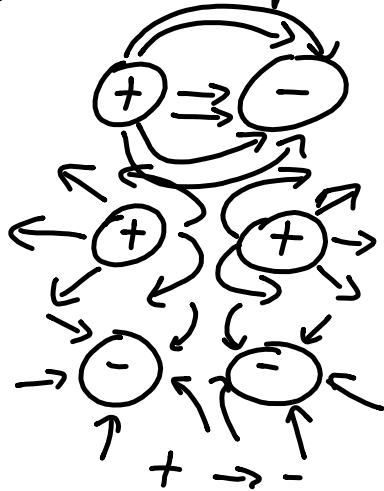
$$F_g = \frac{G M_1 M_2}{r^2}$$

$$F_e = \frac{k q_1 q_2}{r^2}$$

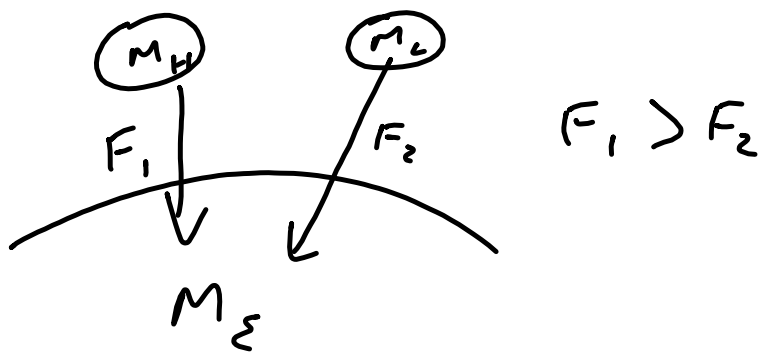
$$\Delta \text{Ratio} = \frac{\text{final}}{\text{initial}}$$

$$NF = \frac{(O.F.) (R_1) (R_2)}{(rR)^2}$$

### Free Response

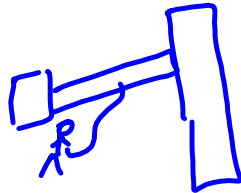


# Force of Gravity



$$F_g \propto \frac{M_1 M_2}{(r)^2}$$
$$g \propto \frac{1}{25}$$
$$g \quad G \quad 6.67 \times 10^{-11}$$
$$9.8 \text{ m/s}^2$$

- gravity
- Field force
  - Mass
  - weak
  - Distances



# Gravitational Field

$$F_g = \left( \frac{G m_2}{r^2} \right) \cdot m_1$$

$$\{ GF = 9.8 \text{ m/s}^2 \cdot m$$

$$\{ GF = 13.9 \text{ m/s}^2 \rightarrow \text{G.F.}$$

$$W = m \cdot g$$



$$F_e \propto \frac{q_1 q_2}{r^2}$$