

## Work:

- What happens when force is applied to a moving object
- $\text{Work} = \text{Force} \times \text{distance}$   
 $(\text{N} \cdot \text{m} \text{ or Joule}) \quad (\text{N}) \quad (\text{m})$

$$W = F \cdot d$$

Today: Write a word problem. The information given should be force and displacement.  
 measure with a scale

(our scales measure in pounds – pretend it's Newtons)

- the object you push needs to move
- Ideally the force should stay the same
- The measurements you make go into the problem – Use the 5 steps to find W

• PAIRS ok

(3.25 feet = 1 meter)