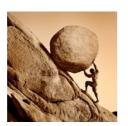
Work & Power

Objectives

Define & calculate work and power.

Identify appropriate units for work and power.



Weight	#	Time	Dist	Work	Power
20 N	10				
20 N	10				
50 N	5				
100 N					
ı		I			ı

Work

force acting through a distance

$$W = f \cdot d$$

Unit: N-m or Joules (J)



Work

force must be in the same dimension as work

- vertical work from gravity
- horizontal work from friction





Power

rate at which work is done



Unit: J/s or Watts (W)

750 W = 1 hp

1 hp = 550 ft.lb/s



Assignments . . .



- Begin Chapter 8 Homework # 1 - 5

