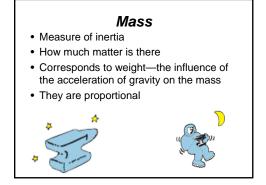


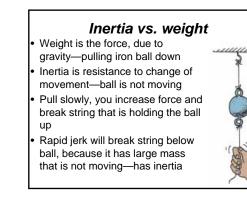
objects



1

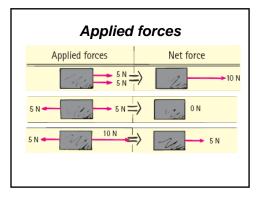
Mass

- Measured in kilograms
- Influence of gravity gives weight
 Pounds lb.
 - Newtons N
- On Earth: 1 kg = 9.8 N
- Not a measure of volume



Force

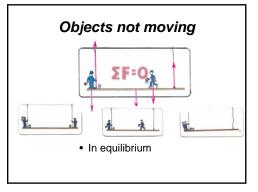
- · Weight is a force due to gravity
- Force is VECTOR QUANTITY
- Vectors have magnitude and direction
- Multiple vectors add up

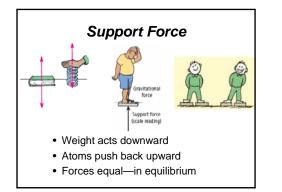


Objects not moving

- Force of weight is equal to force of string holding it up
- The sum of the forces is zero
- There is mechanical equilibrium





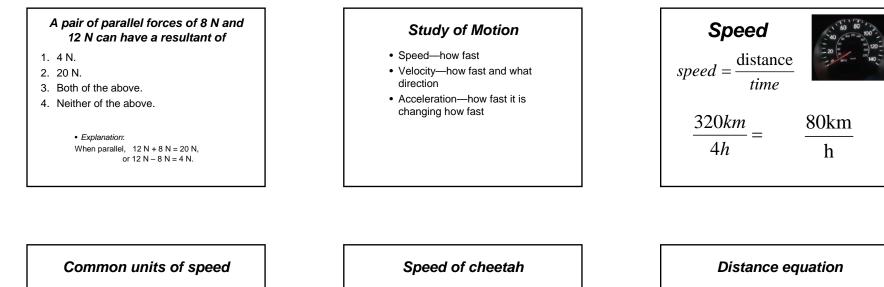


Dynamic Equilibrium

- Can be moving
- At a constant speed in a straight line
- · Net forces are zero

Friction

- · Force that acts to resist motion
- Always in opposite direction to applied force
- When you are pushing something, and it moves at a constant speed, the frictional force is the same as the pushing force



- Miles per hour mph
- Means 'miles per hour'
- Don't use this abbreviation of the words
 Use mi./h
- Kilometers per hour km/h
- Meters per second m/s

