

# SPEED VS. VELOCITY AND ACCELERATION


pp325-328

## Speed

Distance divided by Time


$$v = d/t$$


## Velocity is Speed plus Direction



## Comparison

SPEED = DISTANCE/TIME      VELOCITY = SPEED + DIRECTION



- ## Reporting Speed and Velocity
- Speed has a number and units of distance/time
    - 55 m/s
    - 64.0 mph
    - 37 kph
  - Velocity has a number, units and a direction
    - 55 m/s, down
    - 64.0 mph East
    - 37 kph @ 35°

# ACCELERATION

Units = ft/s<sup>2</sup>, m/s<sup>2</sup>

