

PHYSICS #1 EQUATIONS Notes

1. SPEED: (m/s)

$$\text{speed} = \frac{\text{distance}}{\text{time}}$$

2. AVERAGE SPEED: (m/s)

$$\text{avg. speed} = \frac{D_f - D_i}{T_f - T_i}$$

D_f = Final distance

D_i = Initial distance

T_f = Final time

T_i = Initial time

3. VELOCITY: (m/s and direction)

$$\text{velocity} = \frac{\text{distance}}{\text{time}}$$

4. ACCELERATION: (m/s²)

$$\text{Acceleration} = \frac{V_f - V_i}{T_f - T_i}$$

V_f = Final velocity

V_i = Initial velocity

T_f = Final time

T_i = Initial time

5. MOMENTUM: (kgm/s)

$$p = mv$$

p = momentum

m = mass

v = velocity

6. DISTANCE: (meters)

$$\text{Distance} = \text{speed} * \text{time}$$

7. TIME: (seconds)

$$\text{Time} = \frac{\text{distance}}{\text{speed}}$$