## Acceleration:

- . A change in an object's velocity over time

  - → speeds up → slowing down → changing direction

**Acceleration Intro.notebook** 

Plane Plane (higgest velocity)

car

Motorcycle (fastest-acceleration) **Acceleration Intro.notebook** 

Acceleration equation:

acceleration = 
$$\frac{\text{(final velocity-initial velocity)}}{\text{time}}$$
 $Q = \frac{\text{(V_f - V_o)}}{\text{t}}$ 

Units:  $\frac{\text{Meters}}{\text{Second}^2} \Rightarrow \frac{\text{M}}{\text{S}^2}$ 

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Example:

My rocket car goes Rom 
$$10\frac{10}{5}$$
 to

 $100\frac{m}{5}$  in  $5\frac{100}{5}$  what was

my acceleration?

(a)  $10\frac{100}{5}$   $10\frac{100}{5}$   $10\frac{100}{5}$ 

(b)  $100\frac{m}{5}$   $100\frac{m}{5}$ 

(c)  $100\frac{m}{5}$   $100\frac{m}{5}$ 

(d)  $100\frac{m}{5}$   $100\frac{m}{5}$ 

(e)  $100\frac{m}{5}$   $100\frac{m}{5}$ 

(f)  $100\frac{m}{5}$   $100\frac{m}{5}$ 

(g)  $100\frac{m}{5}$   $100\frac{m}{5}$ 

(h)  $100\frac{m}{5}$   $100\frac{m}{5}$ 

(g)  $100\frac{m}{5}$   $100\frac{m}{5}$ 

(h)  $100\frac{m}{5}$ 

(h