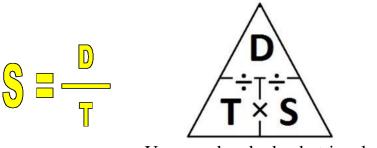
Speed, Velocity and Accleration Notes

Speed:

- The distance an object travels in a certain amount of time.
 - > Average speed Total distance divided by total time
 - > Constant speed Speed that does not change

Formula for Calculating Speed

Speed equals distance divided by time



Use your handy dandy triangle!

Practice for calculating speed:

A football field is about 100 meters long. If it takes a person 20 seconds to run its length, how fast was the football player running?

$$S = \frac{D}{T} \frac{100m}{20sec} \qquad 20 \boxed{100}$$

<u>Velocity</u> – uses the same formula for speed, V=d/t

- An object's speed and direction at a given time
 - > The wind is blowing 65 km/hr from the North

Acceleration

- A change in the direction **or** speed (velocity) of an object over time:
 - > A change in speed
 - Starting
 - Stopping
 - Speeding up (positive acceleration)
 - Slowing down (negative acceleration)
 - > A change in direction
- Acceleration is caused by unbalanced forces.