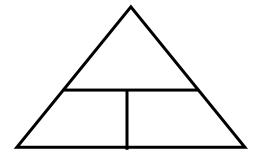
## 8<sup>th</sup> grade science

Newton's Second Law	1
Acceleration is directly related tone force.	_ in the direction of
=	
=	
But there is a twist acceleration in inversely proportional to the	
<del>-</del>	
Newton's Second Law states	1
	l
	( )
The units used for force are	()
The units used for mass are	()
The acceleration units are	( ) <b>I</b>
	<b> </b>

8 <sup>th</sup> grade science		
Speed is		
<b>Velocity</b> is		
<b>Acceleration</b> is		
Calculating Speed	Given Distance & Time Formula =	
	Given Speed & Time Formula =	

## 8<sup>th</sup> grade science



Given Distance & Speed Formula =

## **Calculating Acceleration**

Formula =

## **Let's Practice:**

- 1. A roach moves down the hall at 1.2 m/s. When he sees the janitor coming down the hall, he begins to run. After 3.2 s, he is moving at 3.6 m/s. What is his acceleration?
- 2. While waiting for his Mom to come out of the hairdresser's, Sean accidentally puts the car in gear and it begins to roll forward. How far would the vehicle travel if it moved at 34 m/s for 2.5 s?
- 3. While showing off for some girls at the skate park, Josh D crashes. After the crash he tumbled 30 m in 4.2 s, what was his speed in m/s?
- 4. Colin skateboards down the sidewalk in front of the school, traveling at 24 km/h. How much time would it take him to travel 6.0 km?