Acceleration Summary

* Acceleration is the rate of change of velocity.
* Change in velocity can be due to either change in speed, direction, or both
* If acceleration is is same direction of motion, object is speeding up.
* If acceleration is is opposite direction of motion, object is slowing down.
* Slope on Velocity Time Graph is Acceleration:



* Acceleration due to gravity is ALWAYS DOWNWARD and therefore NEGATIVE. 9.8m/s2
* Acceleration due to gravity applies to anything FALLING or THROWN UPWARD.
* Formula for calculating acceleration is always:

 or

* Where units for acceleration is m/s2
* Units for velocity is m/s
* Time is in seconds.