



What is Acceleration?

- Acceleration
 - the change in an object's velocity over time.
- What are 2 ways that an object's velocity can change?
 - cnange in speed
 Change either one and there is an acceleration
 change in direction









Falling Objects

- Gravity acts on all falling (and rising) objects.
- Down is considered to be in the negative direction. Up is positive.
- Acceleration due to gravity is 9.80 m/s² downward (-9.80 m/s²)

Helpful Hints

- List the variables that are given and the one you are looking for
- Look for the words "from rest" and "stop"
- Choose the equation with all variables in it.
- Remember all direction conventions

Sample Problem

- A cat accelerates from rest at a constant rate of 2.30 m/s² for 6.3 seconds.
 - What is the speed of the cat at the end of the time?

How far does the cat travel in this time?

Sample Problem

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