
Bell Wk

1. **Test: Unit 1 - Kinematics -> Thursday, October 24/13**
2. Check: Practice Problems (PP) - Page 144: 5-7
Worksheet: C4 - Extra Practice - Weight and Friction
3. Newton's Laws of Motion - Continue
4. Text: Page 163, PP #1-3
Handout: Problems - Newton's Second law
Text - Page 168 #4-7



Ball Work - Oct. 22/13

What are the motion formulas you need to know for Thursday's test?

Uniform Motion (constant vel.)	Uniformly Acc'd Motion (speed or direction changes)
$\vec{v} = \frac{\vec{d}}{t}$	$\vec{v}_f = \vec{v}_i + \vec{a}t$ $\left[\vec{a} = \frac{\vec{v}_f - \vec{v}_i}{t} \right]$

$$t = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$\vec{v}_f^2 = \vec{v}_i^2 + 2\vec{a}\vec{d}$$

$$\vec{d} = \vec{v}_i t + \frac{1}{2}\vec{a}t^2$$

$$\vec{d} = \frac{1}{2}(\vec{v}_i + \vec{v}_f)t$$

Free-fall

$\Rightarrow \vec{a} = -9.80 \text{ m/s}^2$ (Earth)

\Rightarrow "drop" $\rightarrow \vec{v}_i = 0$ (if there is no motion initially)

$\rightarrow \vec{v}_i$ +ve (there is motion initially)
 $\rightarrow \vec{v}_i$ -ve (there is motion initially)

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Test: Unit 1 - Kinematics

- Six Problems:
1. Vector Analysis
 2. Velocity-Time Graph
 3. Four Motion Problems Including Freely Falling Body Problems

Formulas will NOT be provided.