

March 31 Gradekeeper Type Report

April 1 AM PT *No Sch w/f.*

April 13 (Wed.) Report Cards

April 14 (Thur.) Evening PT

Physics 112

Thursday, March 24/16

<http://mvhs.nbed.nb.ca/>

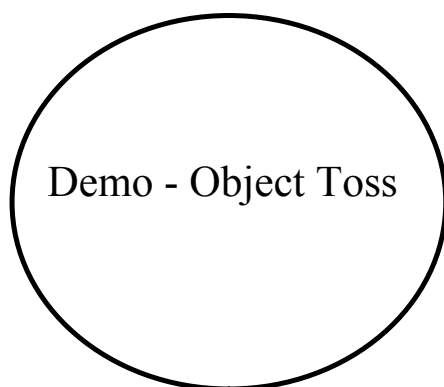


<http://mvhs-sherrard.weebly.com/>

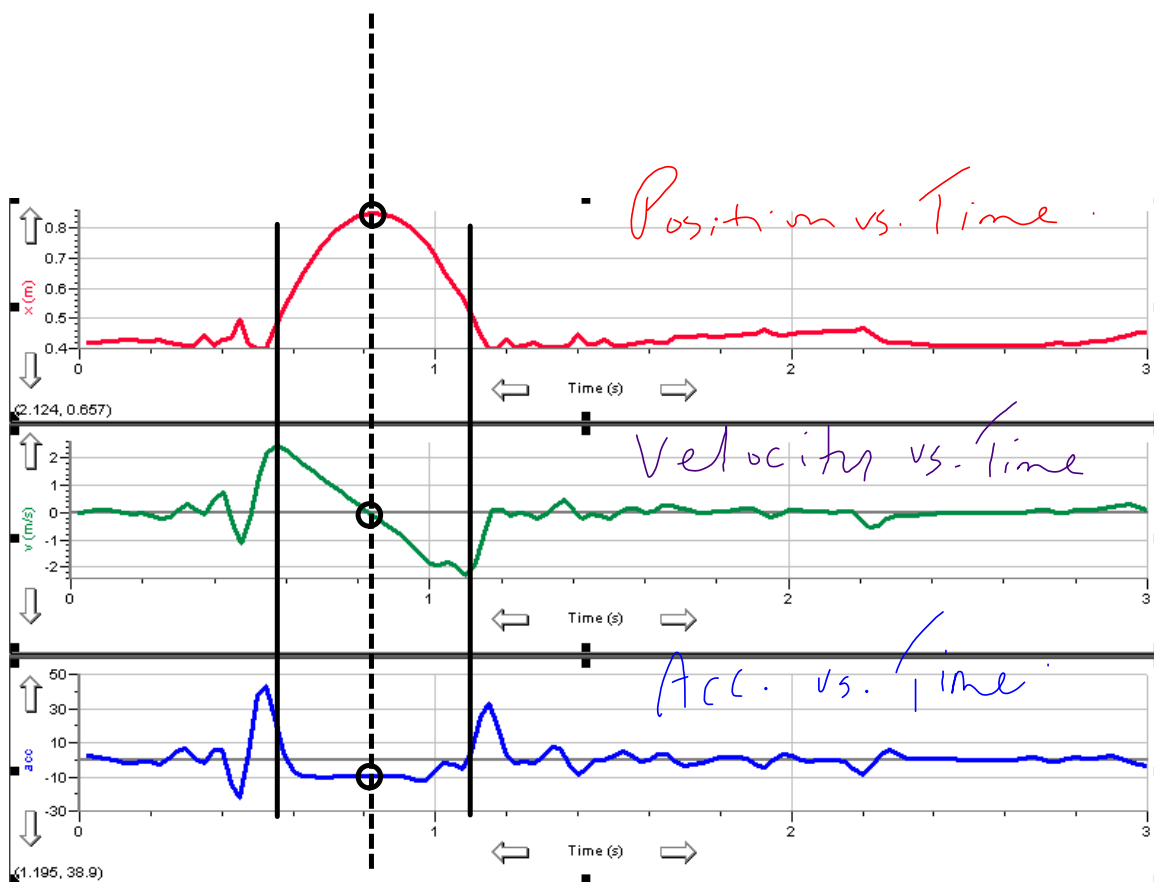


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1. [Worksheet - Motion Problems - HW](#)
 2. Freely Falling Bodies - To Be Continued
 3. Worksheet - Freely Falling Bodies
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Objects Moving Vertically



Demo - Ball Toss



Acceleration due to Gravity

The acceleration due to gravity is represented by the symbol \vec{g} . The magnitude of \vec{g} is influenced by

1. the mass of a planet M
2. the distance of an object from the planet's centre r



$$g = \frac{GM}{r^2}$$

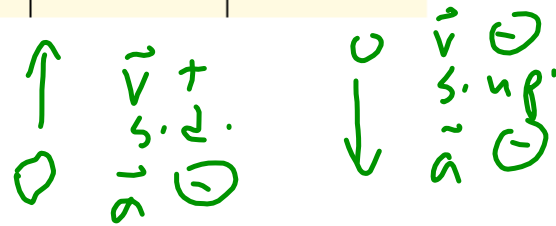
P122 Formula

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Table 4.3 Free-Fall Accelerations Due to Gravity on Earth

Location	Acceleration due to gravity (m/s ²)	Altitude (m)	Distance from Earth's centre (km)
* North Pole	-9.8322	0 (sea level)	6357
equator	-9.7805	0 (sea level)	6378
Mt. Everest (peak)	-9.7647	8850	6387
Mariana Ocean Trench* (bottom)	-9.8331	11 034 (below sea level)	6367
International Space Station*	-9.0795	250 000	6628

*These values are calculated.



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Table 4.4 Free-Fall Accelerations Due to Gravity in the Solar System

Location	Acceleration due to gravity (m/s ²)
Earth	- 9.81
Moon	- 1.64
Mars	- 3.72
Jupiter	- 25.9

-9.80 m/s²

Ignoring air resistance (air friction), objects in free fall (rising or falling through air) have an acceleration of:

Assumption

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

<http://safeshare.tv/w/HseCPCrwwr>

Objects in free fall or freely falling bodies are always accelerating - even when they may have zero velocity for an instant.

Science 122

Thursday, March 24/16

<http://mvhs.nbed.nb.ca/>




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1. Test - Magnetism -> Thursday, March 24/16

Science 10

Thursday, March 24/16

 <http://mvhs.nbed.nb.ca/>

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1. Test - Chemistry
 2. Lab - Types of Reactions, Gas Collection and More
 - Each Person Passes in a Lab Sheet for Marking
 - Place in bin by today, March 24/16.
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Physics 122

Thursday, March 24/16

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1. Check -> [Worksheets - Relative Velocity Problems - HW](#)

2. Unit 1 - Section 4: Collisions/Explosions

- Review - Momentum

- Types of Collisions

- Law of Conservation of Energy

- 1D Collisions/Explosions

3. Worksheet: 1D Collisions