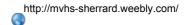
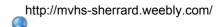
# Tuesday, May 5/15 Science 122



- 1. Test: Nuclear Physics
- 2. Example: Iron Ring and Rod
- 3. Expansion in Two and Three Dimensions
- 4. Cutnell Chapter 12, Page 366: #9, 11-13, 15, 17, 19 -> HW
- 5. Reminders: STP and SATP
- 6. Macroscopic Description of Gases
- 7. Boyle's Law
- 8. Charles's Law
- 9. Combined Gas Law
- 10. Ideal Gas Law
- 11. Cutnell 412: #9-11, 13, 15, 16, 18



# Tuesday, May 5/15 Physics 122



- 1. Rewrite -> Quiz U2-S2: IS Wednesday or Thursday
- 2. Test: Unit 2 Monday, May 11/15
- 3 Questions?

Example: Mass on a Spring

Text: Page 608, #1-4

Page 623, #23-27, 30

Text: Page 614, #5-8

Page 623, #28, 29

Worksheet - SHM -> Optional

- 4. Unit 3 Types of Fields, Charges and Circuits
- 5. Electrostatics
- 6. Electrical Nature of Matter
- 7. Transfer of Charge
- 8. Law of Conservation of Electric Charge
- 9. Charging by Conduction
- 10. Charging by Induction



# Tuesday, May 5/15 Science 10

Meeting - 3:30

- Experiment Measurements and Significant Digits
   4 Days Late Today
- 2. Chemistry Task Sheet 4 Days Late
- 3. Quiz: Wednesday -> SD, Certainty Rule, Precision Rule, Rearranging Equations and Metric Conversions
- 4. Activity: Tumble Buggies -> Excel Graphs
- 5. Average Speed Equation and Word Problems Continue
- 6. Matching a Graph to a Story
- 7. Worksheet: Matching a Graph to a Story Understanding Concepts Page 358: #3-6, 8
- 8. Types of Physical Quantities
- 9. Direction
- 10. Position and Displacement

## 7.3 km/h

## Sample Problem 1

Eiko skates to school, a total distance of 4.5 km (Figure 2). She has to slow down twice to cross busy streets, but overall the journey takes her 0.62 h. What is Eiko's average speed during the trip?

2.3 h

# Sample Problem 3

Kira is trying to predict the time required to ride her bike to the nearby beach. She knows that the distance is 45 km and, from other trips, that she can usually average about 20 km/h, including slowing down for climbing hills. Predict how long the trip will take.

the trip will take.

$$V_{KV} = 20 \text{ Km/h}$$

$$J = +5 \text{ Km}$$

$$L = ?$$

$$L = ?$$

$$L = 45 \text{ Km}$$

$$L = 2.3 \text{ h}$$

## Sample Problem 2

Imagine that you are riding on the Cariboo Dayliner, in the dome car of course (Figure 3), and you see a sign that reads 120 km. You decide, after seeing several such signs, that you are going to measure the elapsed time between the next two signs, which are 10 km apart. You read the elapsed time as 390.6 s. Determine the speed of the train in kilometres per hour during the elapsed time.

92 km/h



Figure 3
The Cariboo Dayliner yields a scenic view of Canada.

11 km

## Sample Problem 4

Janna has a summer job helping with bison research (Figure 4). She notes that they graze (move and eat grass) at an average speed of about 110 m/h for about 7.0 h/d. What distance, in kilometres, will the herd travel in two weeks (14 d)?