# Monday June 6 , 2011

## Exam Review Topics Covered

## Worksheets to complete

# CHEMISTRY PART 1:

Chapter 5 (Grade 10 Text)

- **Particle Theory**
- **Types of Matter**
- **WHMIS symbols**
- **Periodic Table**
- **Parts of an Atom**
- **Bohr Diagram**
- **Ionic Compounds**
- **Molecular Compounds**

# Chemistry Part 2:
# Chemical Reactions
# Chapter 6 : (Grade 10 Text)

- Law of Conservation of Matter
- Balancing Chemical Equations
- Writing Chemical Equations
- Combustion Reactions (Complete and Incomplete)
- Synthesis Reactions
- Decomposition Reactions
- Single Replacement Reactions
- Double Replacement Reactions

# Physics
# Topics Covered - Velocity
# Chp 9 (Grade 10 Text)

Definitions of:

distance, time, speed, constant speed, instantaneous speed, average speed

Rules of Significant Digits

-counting
- adding /subtracting
- multiplying/ dividing

Solve problems involving speed ($V_{av}$), distance (d), and time (t).

the formulas will be provided and the 3.6 conversion factor all other conversions will need to be memorized.

Distance time graphs

- interpreting them
- how slope and speed are related
- drawing a graph given data
- calculating slope given data or graph

# Physics

## Topics Covered- Acceleration: Chp 10 (Grade 10 Text)

Acceleration is the change in speed over time.

There are 3 types of acceleration:

- Constant
- Instantaneous
- Average

Formulas (will be provided)

$$a = \frac{v_2 - v_1}{t_2 - t_1} \qquad t = \frac{v_2 - v_1}{a} \qquad v_1 = v_2 - at \qquad v_2 = v_1 + at \qquad d_{square} = vt \qquad d_{triangle} = \frac{1}{2}vt$$

Graphing:

- The line on a velocity vs time graph represents acceleration.
- To find acceleration from a graph find the slope of the line.
- To find distance from a graph calculate the area under the graph.

# Electricity Unit Review Topics

Chapter 9 : (Grade 9 Text)
Electrostatics
Electrostatics Series (chart)
Law of Electric Charges
Charging objects using static
- Friction
- Contact
- Induction

Discharing Electricity
- Static Wicks
- Grounding

Insulators / Conductors

Chapter 10 (Grade 9 Text)
Current Electricity
Circuits
- Parts of a circuit
- Series vs Parallel
- Drawing

Resistance
Current
Voltage
Ohm's Law