**SNC1P Current Electricity Review**

Your test for this will be on Wednesday, Dec. 21st, please use this review to help you prepare for this test.

You should be able to answer **ALL** of the following questions and complete **ALL** the **Learning Checks** (homework/classwork textbook questions);

* What is Potential Difference?
  + How would you describe it? Maybe use Fig. 14.4 (p276-77)
  + What does it mean to “separate the charges” (p276-77)
  + Where in the circuit does Potential Difference originate from? (p276-77)
  + What type of meter do you use to measure potential difference? (p282)
  + What is the symbol for potential difference? (p276-77)
  + How do you attach a voltmeter “into” a circuit? (p282)
  + What are the units that potential difference is measured in? (p276-77)
* What is Current?
  + How would you describe it? (p278-79)
  + What type of meter do you use to measure it? (p282)
  + What is the symbol for it? (p278-79)
  + How do you attach an ammeter “into” a circuit? (p282)
  + What are the units that current is measured in? (p278-79)
* What is Resistance?
  + How would you describe it? (p279)
  + Give examples of “things” in a circuit that cause resistance. (p279)
  + What is the symbol for it? (p279)
  + What are the units that resistance is measured in? (p279)
* Circuit Diagrams (Schematic Diagrams)
  + Know the symbols (p280-1)
  + Know the rules of drawing these diagrams (check your notes)
  + Know how to draw them from looking at a real set-up circuit (p280-1)
  + Know how to draw them from a paragraph description (check your notes)
* Be able to BUILD a circuit from a given diagram, and how to measure Current & Potential Difference in an actual circuit after hooking up the Ammeter & Voltmeter properly. (in class practice)
* Know the properties of electric circuits
  + Does it matter where a switch is placed? (check your notes)
  + What happens to “I“ (current) as more bulbs are added in a series circuit? (p294-5)
  + Does it matter where an ammeter is located in a simple circuit? (p294-5)
  + How does potential difference across a source differs from the across a load? (p296-7)
  + How does potential difference across a source differs when 2 or more loads are in a series? (p296-7)
* Know the properties of series & parallel circuits (p292-97 + check your notes)
* Be able to predict Potential Difference & Current from a schematic diagram (check your notes)
* Practical Electricity & Safety-know what these objects do for a circuit: circuit breaker, fuse, grounds, safety outlet, etc. (p304-311)
* Conserving energy P316-319 + associated classwork