*SPH3U0-Fall 2019* **Louise Arbour Secondary School Mr. Nestor/ Mr. Shaw**

**Unit 2: Electricity & Magnetism**

|  |  |  |
| --- | --- | --- |
| **Day** | **Topic** | **Assignment** |
|  |  |  |
| Day 1  Fri. Sep. 13 | Circuits Review  ●Note & Handout (Grade 9 Review) | Textbook: Sect. 11.1 #1-3 pg. 369  #1,2 pg. 372  # 17,20 pg.375 |
|  |  |  |
| Day 2  Tue. Sep 17 | PhET Activity  ●Circuit Simulation Activity | **Assignment: Individual Circuit Simulation** |
| Day 3  Wed. Sep 18 | Kirchoff’s Laws  ● Ohm’s Law ***(V=IR)***  ● Series Circuit Analysis | HW: Ohm’s Law Worksheet  HW; Basic Circuit Problems |
| Thu. Sep 19 | **Unit 1 Measurement Quest** |  |
| Day 4  Fri. Sep 20 | Ohm’s Law Lab | Formal Lab Report - Due Thu. Sep 26 |
|  |  |  |
| Day 5  Mon. Sep 23 | Mixed Circuit Analysis  ● Parallel Circuit Analysis  ● Simple Mixed Circuits | HW: Mixed Circuit Practice Worksheet  Textbook Sect. 11.2 #7,8, 9, 11, pg 380 |
| Day 6  Tue. Sep 24 | Mixed Circuit Practice  ● Advanced Mixed Circuits | HW: Solving Complex Circuits Worksheet  Textbook Sect. 11.3 Practice 1 and 2 pg 386 |
| Day 7  Wed. Sep 25 | Snapkit Circuit Activity:  ● Building Series and Parallel Circuits | Circuit Activity - Due Wed. Oct 2 |
| Day 8  Thu. Sep 26 | ElectricalCharge | Ohm's Law Lab DUE  Textbook: Sect. 11.1 #1-3 pg. 369  #1,2 pg. 372  # 17,20 pg.375 |
| Day 9  Fri. Sep 27 | ElectricalPower  ***(P=IV=I2R=V2/R)*** | HW: 11.4 Practice 1, 2 pg 391  Practice 1,2 pg 392  HW: Power Questions- 11.4 #10,12 pg 395 |
|  |  |  |
| Day 10  Mon. Sep 30 | Review for Electricity Quest | Chapter 11 Review: Electrical Circuits- #2, 12, 14, 17, 21,22,24, 27, 28 |
| Day 11  Tue. Oct 01 | **Unit 2 Electricity Quest** |  |
| Day 12  Wed. Oct 02 | Introduction to Magnetism  ● Domain Theory / Fields  ● Magnet Activity | Textbook Sect. 12.1  HW: 12.1 Reading & Summary sheet |
| Day 13  Thu. Oct 03 | Electromagnetism RHR #1  ● Oersted's Principle (Wires) | RHR #1 worksheet |
| Day 14  Fri. Oct 04 | Electromagnetism RHR #2  ●Solenoids & Coils | RHR #2 worksheet |
|  |  |  |
| Day 15  Mon. Oct 07 | Induction and Lenz’s Law | Worksheet- Lenz’s Law |
| Day 16  Tue. Oct 08 | Motor Principle- RHR #3 | Worksheet |
| Day 17  Wed. Oct 09 | Review for Magnetism Quest | Chapter 12 Review Electromagnetism & Motor Effect: #1, 9,11, 12, 17(determine direction of force only) Chapter 13 Review Induction: #1, 2, 7, 13 ,14 |
| Day 18  Thu. Oct 10 | **Unit 2 Magnetism Quest** |  |
| Fri. Oct 11 | **PA Day** |  |
|  |  |  |
| Mon. Oct 11 | **Thanksgiving** | |
| Day 19  Tue. Oct 12 | ***Building a Motor Mini-Project*** | |