**IB Physics**

Currents and Circuits - Chapter 18&19 Syllabus

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|  | **Block** | In class : | Due on this class: |
| **M** | **1**  **Oct 26** | **GW**-Current, Voltage, Power  **IW**-Circuit PHET Part 1 | **VF 18A, 18B, 18D, 18E**  Turn in Electric Field Mapping (1), Millikan Oil Drop (4), and RC Circuits Labs (2) |
| **T** | **2**  **Oct 27** | **GW**-Solving Series and Parallel circuits  **IW**-Circuit PHET Part 2 | **VF 18F, 18G, 18H** |
| **Th** | **2¼**  **Oct 29** | No School – Teacher PD |  |
| **F** | **2¾**  **Oct 30** | No School – Conferences |  |
| **M** | **3**  **Nov 2** | **SA18.1 Currents**  **VF**-18I Reducing Resistances  **GW**-Single Popper Networks (18J1) | Turn in FA18.1 |
| **T** | **4**  **Nov 3** | **GW**-Solving Double Popping Networks  **GW**-FA19.1 Series and Parallel | **VF 18I?**  **VF 18J1?**  **VF 18J2** |
| **Th** | **5**  **Nov 5** | **SA19.1 Parallel and Series**  **VF**-18L Kirchhoff's Laws  **DI**-Kirchhoff's Laws | Turn in FA19.1 |
| **F** | **6**  **Nov 6** | **GW**-Kirchhoff's Laws  **GW**-FA19.2 Network Reductions | **VF 18L** |
| **M** | **7**  **Nov 9** | **SA19.2 Networks**  **IW**-FA19.3 Kirchhoff's  **GW**-Labs | Turn in FA19.2  **VF Labs - R wire, LB+D, IRB, OSC** |
| **T** | **8**  **Nov 10** | **SA19.3 Kirchhoff's Laws**  **IW**-VF 18C1, 18C2  **GW**-Labs | Turn in FA19.3 |
| **Th** | **9**  **Nov 12** | **GW**-Labs | **VF 18C1 and 18C2**  Turn in FA18.2 (Resistivity and drift) |
| **F** | **10**  **Nov 13** | **GW**-Labs | **VF 18N**  Turn in FA19.4 (Adding Capacitors) |
| **M** | **1**  **Nov 16** | **MAGNETS!!!!!!!!!**  **DI**-Demos and the three right hand rules  **GW**-20.1, 20.2a-d | Turn in IB Questions  **VF 20A, 20B, 20C** |

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| Assignments   * 5 Labs/Pre Lab   + Resistance of wire – You design the DCP (30 pts)   + Resistance of light bulb and diode (30 pts)   + Internal resistance of a battery (20 pts)   + Oscilloscope Lab – Quick thing with the oscilloscope (20 pts) * 4 summative/6 Formative Assessments   + 18.1 - Ohm’s law, current, power   + 18.2 - Resistivity and electron drift speed (No summative)   + 19.1 - Simple series and parallel circuits   + 19.2 - Networks of circuits   + 19.3 - Kirchhoff's Laws   + 19.4 - Capacitors in parallel and series (No Summative) | **Handouts** |