IB Physics

Magnetism and Induction

Chapter 20, 21 Syllabus

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|  | Class | Due on this class | |
| 1 Jan21 | **DI**-Demos and the three right hand rules  **GW**-20.1, 20.2a-d | **VF 20A, 20B, 20C**  Turn In Labs:  Internal Resistance of a battery,  Light Bulb and Diode,  Oscilloscope,  Resistance of a Wire | |
| 2 Jan29 | **DI**-Hysteresis Demo  **GW**-20.2e  **GW**-FA20.1, 20.2 | **VF 20D, 20E, 20F** | |
| 3 Jan31 | **SA 20.1 and 20.2 (First 40 minutes)**  **VF**-20H-Ampere's Law  **DI**-Galvanometers, Speakers, Motors (20G) | Turn In FA 20.1, 20.2 | |
| 4  Feb  4 | **IB Packet**  **DI**-Demos and direction of current  **GW**-21.1, 20.2a-c | **VF 21A, 21B, 21C** | |
| 5  Feb  6 | **DI**-Demos - Transformers, and Alternators (21D)  **GW**-21.2de  **GW**-21.1, 21.2 | **VF 21E, 21F** | |
| 6  Feb  10 | **SA 21.1, 21.2 (First 40 minutes)**  **VF**-20I, 20K  **DI**-da Labs | Turn In FA 21.1, 21.2 | |
| 7  Feb  12 | **GW**-Magnaprobe lab  **GW**-Specific Heat Of Water lab  **GW**-Magnet Lab | **VF 21G** | |
| 8  Feb  18 | **GW**-Magnaprobe lab  **GW**-Specific Heat Of Water lab  **GW**-Magnet Lab | Turn In: FA20.3 (no summative) | |
| 9  Feb  20 | **IB Test on Circuits** | **Turn in IB packet** | |
| Feb  24 | **Atomic and Nuclear!!!!** | **VF 27A, 27BCD, 27D1, 27EFG** | |
| Assignments   * 3 Labs:   + MagnaProbe Lab – Station exploration of magnetic fields   + Magnet Lab – student designed lab – no handout   + Specific Heat of Water lab   + Index of Refraction EC lab (IB) * 5 Formative, 4 Summative Assessments   + 20.1 – Right Hand Rules   + 20.2 – Forces on Wires and Particles   + 20.3 - Ampere's Law (no summative)   + 21.1 – Lenz's Law   + 21.2 – Electrical Induction | |