IB Physics

Magnetism and Induction

Chapter 20, 21 Syllabus

|  |  |  |
| --- | --- | --- |
|  | Class  | Due on this class |
| 1Feb6 | **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 |
| 2Feb8 | **DI**-Hysteresis Demo**GW**-20.2e**GW**-FA20.1, 20.2 | **VF 20D, 20E, 20F** |
| 3Feb12 | **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 |
| 4Feb14 | **DI**-Demos and direction of current**GW**-21.1, 20.2a-c | **VF 21A, 21B, 21C** |
| 5Feb19 | **DI**-Demos - Transformers, and Alternators (21D)**GW**-21.2de**GW**-21.1, 21.2 | **VF 21E, 21F** |
| 6Feb22 | **SA 21.1, 21.2 (First 40 minutes)****VF**-20I, 20K**DI**-da Labs | Turn In FA 21.1, 21.2 |
| 7Feb 26 | **GW**-Magnaprobe lab**GW**-Specific Heat Of Water lab**GW**-Magnet Lab | **VF 21G** |
| 8Feb 28 | **GW**-Magnaprobe lab**GW**-Specific Heat Of Water lab**GW**-Magnet Lab | Turn In: FA20.3 (no summative) |
|  | **Atomic and Nuclear!!!!** | **VF 27A, 27B, 27C** |
| 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
 |