**IB Physics**

Gas Laws and Heat Syllabus

Chapters 13 and 14

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|  | | Block | | In Class : | Due on this class: | |
| **M** | | **1**  **Sept**  **14** | | -Welcome back!!  -IA Research Projects!!  Make Groups/Breakout rooms  **DI**-Basic Kinetics - Temperature, TE, Heat, IE | Read Oxford 3.1: pp. 91 - 99  The Summer review of FA 13.1 and FA 14.1 | |
| **T** | | **2**  **Sept**  **15** | | **DI**-13.1-Assumptions and units/Penk Challenge  **GW**-FA13.2 (13B&C)  **GW**-FA13.1, and W13.1 questions | Read Oxford 3.2: pp. 100 - 112  **VF 13C** - Boltzmann's Equation | |
| **Th** | | **3**  **Sept**  **17** | | **GW**-FA 14.1, and W14.1 questions |  | |
| **F** | | **4**  **Sept**  **18** | | **SA 13.1**  **SA 14.1** | **Turn in:** FA 13.1, 14.1 – Graded and corrected. Be sure that I can tell it has been graded | |
| **M** | | **5** Sept **21** | | **GW**-W14B  **GW**-IB Heat and Energy questions | Read Oxford 8.1: pp. 307-328  **Turn in:** FA 13.2 (no assessment)  **VF 15F** - Energy Sources and Transformations  **VF 15K** - Wind Power | |
| **T** | | **6**  **Sept**  **22** | | **GW**-W14B  **GW**-IB Heat and Energy questions | Read Oxford 8.2: pp. 329-349  **VF 14F** - Heat Transfer  **VF 14I** - BBR and Wien  **VF 14J** - Radiative heat transfer | |
| **Th** | | **7**  **Sept**  **24** | | -Newton's Law of cooling lab | **VF 14K** - Albedo  **VF 14L** - Greenhouse effect | |
| **F** | | **8**  **Sept**  **25** | | **GW**-IB Thermo Questions  **DI**-Wind Power whiteboards  **GW**-IB Heat and Energy questions | **Turn in:** IB Heat and Energy questions | |
|  | | 5 Formative/ 4 Summative Assessments: (10 pts ea)   * 13.1 - Ideal Gas Law * 13.2 - Boltzmann's Equation (no SA) * 14.1 – Heat and calorimetry   IB Heat and Energy questions  One Lab:   * Newton’s Law of Cooling – Exponential function of temperature, data taken by computer /40 pts | | | Handouts: | |