**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 - 99The 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 questionsOne Lab:* Newton’s Law of Cooling – Exponential function of temperature, data taken by computer /40 pts
 | Handouts: |