**Add 13.2**

**IB Physics**

Summer Review

Pressure, Gas Laws, and Heat

This is all more or less a review of stuff you learned in Chemistry. You need to review it for two important reasons - you may not remember it, and Physics uses different units and terminology perhaps. Some concepts, like gauge pressure and pressure in terms of force and area are brand new to you. Do this review toward the end of Summer so you remember it, but before you come back to school. We will spend a little time answering questions about these in class, and have assessments over these topics within a few days of coming back.

**Pressure (From Chapter 10)**

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|  | **Objective:** | **Learn:** | **Practice:** |
| **1** | Solve problems with pressure, force and area | Videos: 10C | W10.1: 1-3 |
| **2** | Convert units of pressure | Videos: 10D | W10.1: 4-9 |
| **3** | Solve problems with gauge pressure | Videos: 10E | W10.1: 10-16 = Gauge Pressure  W10.1: 17-26 = units and gauge |

**Gas laws and Kinetic Theory (Chapter 13)**

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| **1** | Review Kinetic Theory | Videos: 13A, D |  |
| 2 | Understand what temperature is, and be able to convert different scales | Videos: 13B |  |
| 3 | Solve problems with the ideal gas law | Videos: 13F | W13.1: 1-9 |
| **4** | Solve problems with the combined gas law | Videos: 13G | W13.1: 10-19 |

**Heat and Calorimetry (Chapter 14)**

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| **1** | Understand the significance of Joule's discovery | Videos: 14A |  |
| **2** | Solve Q = mcΔT problems | Videos: 14B | W14.1: 4-9 |
| **3** | Solve Q = mL problems | Videos: 14C | W14.1: 12-15 |
| **4** | Understand states of matter, and solve problems with phase change and temperature change | Videos: 14D | W14.1: 16-18  W14.1: 26-29  W14.1: 30-33 |
| **5** | Solve calorimetry problems | Videos: 14E | W14.1: 19-25 |

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