

IB Physics✓

Heat and Gas Laws

| Block | In Class : | Due on this class: |
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| 11 Apr 30 | Oaks Park Forms Out/Before Oaks Park Assignments DI-Extravaganza Events SA12.2 - Doppler SA12.2A - Diffraction | Turn in FA12.2/Worksheet 12.2/Diffraction Lab Turn in FA12.2A/Worksheet 12.2A |
| 1 May 2 | WU-Specific and Latent Heat GW-Worksheet 14A #4-9, 12-15, 17,18 IW-Phases and Kinetic Theory Lab | VF 14A Joule's Discovery VF 14B Specific Heat VF 14C Latent Heat VF 14D Phase Change Graphs (2 Quizzes) Read Oxford 3.1 (pp. 91-99) Thermal Physics |
| 2 May 6 | WU-Calorimetry DI-Extravaganza Events Signup GW-Worksheet 14A #19-23, 26-29, 30-33 | VF 14E Calorimetry VF 13A Basic Kinetic Theory VF 13B Temperature Scales IB Quarter 4 Take Home tests due/exchanged Turn in Phases and Kinetic Theory Lab |
| 3 May 8 | WU-Ideal Gas Law SA14.1 - Heat IW-W13.1 #1-9 | VF10DE Review Pressure Conversions VF 13F Ideal Gas Law VF 13G Combined Gas Law Turn in Worksheet 14A, FA14.1 Turn in Before Oaks Park Part 1 - Phyphox Basics Read Oxford 3.2 (pp. 100-112) Modeling a Gas |
| 4 May 10 | WU-Boltzmann, Maxwell and Combined GW-Worksheet 13.1 #10-19 IW-Ideal Gas Law Lab/Absolute Zero Lab | VF 13C Boltzmann's Equation VF 13D Maxwellian Speed Distribution Turn in Before Oaks Park Part 2 - Exporting and Graphing |
| 5 May 14 | WU-Conduction DI-Finish A-Zero SA13.1 - Gas Laws IW-Work on the video flips/FA13.2/A-Zero Lab? Hand out IB Heat and Energy problems Confer Extravaganza | VF14F Heat Transfer VF14G Thermal Conduction Turn in Worksheet 13, FA13.1 Turn in Absolute Zero Lab Turn in Ideal Gas law Lab Turn in Your Grading of the Q4 Take Home test |
| 6 May 16 | WU-Energy Production GW-Worksheet IB8.1 #1-15, 16-18, 21-23 IW-Carbon Footprint Lab Confer Extravaganza | VF 15F Energy Sources and Transformations VF 15F1 Energy Production (3 full-on quizzes) Turn in FA13.2 - Boltzmann/Ideal Gas Law Lab Read Oxford Section 8.1 (pp. 307-328) Energy Sources |
| 7 May 20 | WU-Radiative Heat transfer DI-Heat Transfer Demos SA IB8.1 - Energy Production IW-Worksheet IB8.2 #4-7, 10-14, 15-19, 20-26 | VF 14J Radiative Heat Transfer VF 14K Albedo VF 14L Greenhouse Effect (3 quizzes) Read Oxford Section 8.2 (pp. 329-344) Heat Transfer Turn in Worksheet IB8.1/FAIB8.1 Graded Take Home Tests turned in |
| May 21: Extravaganza!!! 6:00-7:00 = Demos, 7:15-8:15 = Rhys | | |
| 8 May 23 | WU-Greenhouse Effect GW-Worksheet IB8.2 #4-7, 10-14, 15-19, 20-26 | VF 14I Black Body Radiation Turn in Heat and Gas Laws Warmups Read Oxford Section 8.2 (pp. 344-349) Greenhouse Effect |
| 9 May 28 | DI-Oaks Park info - The assignment/Rides SA IB8.2 - Radiative Heat transfer | Turn in Worksheet IB8.2/FAIB8.2 Turn in Carbon Footprint Lab Turn in Before Oaks Park Part 3 - Video Analysis |
| OP1 May 30 | Oaks Park Prep | |
| May 31 | Oaks Park Field Trip!! | |
| OP2 June 3 | Oaks Park Work Day | |
| OP3 June 5 | Oaks Park Presentations | |
| 10 June 7 | Final Prep | Turn in IB Heat and Energy Questions |
| June 12-14 | Group Final | |
| June 17-14 | Teacher Workday – no school | |

Seniors will not need to take the Final

Assignments:

5 FAs and 4 SAs:

- 14.1
- 13.1
- 13.2 (no Summative)
- IB8.1
- IB8.2

4 Homework Assignments:

- Worksheet 14A
- Worksheet 13.1
- Worksheet IB8.1
- Worksheet IB8.2

3 Labs (some of them lame):

- Phases and Kinetic Theory Lab
- Ideal Gas Law Lab
- Absolute Zero Lab