**IB Physics**

Fluid Mechanics Syllabus

Chapter 10

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| A/B | Class | Due on this class: | If you miss this class: |
| 1  Oct  3 | Demos  Research Proposals  **GW**-10.1 #1-3 Pressure, force, area  **GW**-10.1 #27-31 Density  **GW**-10.1 #37-44 Hydrostatic Pressure | VF 10A, 10 B, 10C, 10F | **Read:** 10.1-4  Watch: 10A, 10 B, 10C, 10F |
| 2  Oct  5 | Demos  **GW**-10.1 #32-36 Pascal's Principle  **GW**-10.1 #45-55 Buoyancy | VF 10G, 10H | **Read:** 10.5-7  Watch: 10G, 10H |
| 3  Oct  9 | **GW**-10.1 #45-55 Buoyancy  **GW**-10.2 #6-10 Continuity  Thinking Physics quandaries | VF 10I | **Read:** 10.8  Watch: 10I |
| 4  Oct 11 | Demos  **GW**-10.2 #11-20 Bernoulli  **GW**-FA10.1 | VF 10 J | **Read:** 10.9-10  Watch: 10J |
| 5 Oct 16 | **SA10.1 (first 30 minutes)**  **VF**-10K Viscosity  **DI**-Stokes Law (10L) |  | **Read:** 10.11  Watch 10K, 10L |
| 6  Oct 18 | Demos  **GW**-10.2 #21-25 Stokes Law  **GW**-10.2 #26-30 Reynolds numbers | VF 10M | Watch: 10M |
| 7  Oct 22 | **GW**-IB Fluids questions  Demo Lab - Absolute Zero  **GW**-FA10.2 |  |  |
| 8  Oct  24 | **SA10.2 (first 30 minutes)**  **IW**-IB Fluids Questions  **GW**-IB Fluids Questions |  |  |
| 9  Oct 30 | **IB Fluids Group Exam** |  |  |
| Nov  1 | **Demonstrations involving fluids and optics** | **Bring a ceramic mug** |  |

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| 2 Formative/ Summative Assessments: (10 pts)   * 10.1 - Fluid Statics * 10.2 - Fluid Dynamics   One Lab:   * Absolute Zero (20 pts) | Handouts:   * Worksheet-10.2-FluidDynamics * Worksheet-10.1-FluidStatics * FA10.1 * FA10.2 |