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16.0.A Daily Outline

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First class after spring break.

CB was away. Julia Chan led the class.

The essence of the class was a round-robin set of seven activities intended to illustrate movement of heat by convection and radiation. This complements the previous activities involving conduction phenomena.

Students worked in groups of 3, and could spend about 10 min per activity (in the 80 minute period).

The seven activities were:

- A convection: gas phase, chimney-induced circulation
- B convection: liquid phase, density-gradient circulation
- C radiation: absorption/reflection of colored light and heat deposition
- D radiation: IR light (heat) reflection
- E radiation: microwave heating of water
- F radiation: incandescence, black body PhET simulation
- G radiation: evidence for movement in vacuo