

Rio Americano High School AP Physics 2

AP2.03 Temperature and Heat

[9/19/17]

1. B2 9/19 – Cosmos: A Spacetime Odyssey

__Episode 3. When Knowledge Conquered Fear

2. r 9/21 – Temperature Demos

__demo: thermoscopes

__Demo: Tower of Bottle

__Guide: Temperature Scales

__Guide: What IS Temperature?

__Q&P < _____ >

3. F 9/22 – Kinetic Theory

__TechLab: Bouncing Off the Walls

__LabQuiz

__Q&P < _____ >

4. M 9/25 – Kinetic Theory by the Numbers

__Springboard: Kinetic Theory

__Job: Kinetic Theory

__MU: Temperature and the Gas Laws

__Q&P < _____ >

5. B1 9/26 – Thermal Expansion

__Demo: Ball & Ring

__demo: bimetallic strips

__Q&P < _____ >

6. B2 9/26 – Heat and Heat Capacity

__Springboard: Iceberg & Java

__Guide: The Compleat Guide to Heat

__Springboard: Specific Heat

__Guide: Specific Heat

__Q&P < _____ >

7. r 9/28 – Hot Video!

__Hewitt on Temperature, Heat, and Expansion

__Q&P < _____ >

8. F 9/29 – Conduction

__Springboard: The Conduction Bridge

__Demo: Conductivity Spider

__Guide: Conduction

__demo: flameproof paper

__Q&P < _____ >

9. M 10/2 – Convection

__demo: the candle

__Demo: Convectionator

__Guide: Convection

__Q&P < _____ >

10. B 10/3 – Absorption/Emission Lab

__TechLab: Canned Heat

__LabQuiz

__Q&P < _____ >

11. r 10/5 – Radiation

__Demo: "Radiometer"

__Guide: Thermal Radiation

__Q&P < _____ >

12. M 10/9 – Leidenfrost + WeatherSchool

__Kinetic Karnival: The Leidenfrost Effect

__Skepticism: Firewalking

__demo: bubble ball

__PhyzJob: WeatherSchool 101/102

__Hewitt on Heat Radiation

__Q&P < _____ >

13. T 10/10 – Wrap-up

__demo: miracle thaw

__Q&P < _____ >

14. w 10/11 – Top Gear Reliant Robin?

15. r 10/12 – Test Correction Mastermind

16. F 10/13 - Test AP2.03 – Temperature & Heat

*PhyzGuides are available at phys.org. They are no longer printed.

Essentials of College Physics Textbook: Chapters 10 and 11

Hewitt Drew It Screencasts: HEAT (All sections except for Thermodynamics)

Make up the previous unit test as **soon as possible**; no later than F 9/29. AP make up tests are administered after school only. Remember, notecards cannot be used on make-up tests.