

Physics Demonstration Day at Delaware Hayes High School
Andrew Borzok's AP Physics Class
10:00 – 10:45 AM
November 17, 2017

Event Program (Discussion leaders in parentheses):

1. Introductions and Opening Remarks (Derek)
2. Roller Coaster Physics: Kinetic and Potential Energy* (Derek)
3. Ninja Balls: Elastic Potential Energy* (Dexter)
4. Metronome Synchronization: Mechanical Oscillations (Guillo)
5. Amazing Jumping Ring: Magnetic Induction and Lenz's Law (Dr. Andereck)
6. Discharging a Capacitor: Electrical Energy (Dr. H-K)
7. Fire Piston: Thermal Energy and Adiabatic Heating (Shouta)
8. The Incredible Shrinking Balloon: Heat Transfer (Nani)
9. Nice Cream: Heat Transfer* (Dr. H-K and Guillo)

* Denotes demonstration suitable for volunteer participation from the audience.