

Jeopardy Review!

Try to beat Watson

PGA

- Permission slips and instructions to hand out today.

Jeopardy website

- <http://jeopardylabs.com/play/electrostatics-and-magnetism>

Topics to study: Magnetism and Electromagnetism

- Fundamental law of attraction and repulsion.
- Magnetic field lines
- Magnetic Domains
- Ruining a magnet
- Curie Point
- Uses of Magnetism
 - Hard drive, compass, etc.
- Lenz's Law
- Electromagnets

Topics to study: Electrostatics

- Fundamental law of attraction and repulsion
- Polarization
- Conduction
- Conductors, Insulators, and Semiconductors
 - Examples
- Electric field lines.
- Historical Figures
 - Robert Millikan, Charles-Augustin de Coulomb, William Gilbert
- Coulomb's Law

Topics to study: Lightning, Capacitors, and Superconductors

- Lightning Safety
- Lightning rod characteristics
- Benjamin Franklin
- Alessandro Volta
- Capacitor safety
- Capacitor and Leyden Jar basic structure
- Superconductors
 - Meissner Effect
 - Critical Temperature
 - Cooper Pairs
 - Zero resistance



Final Jeopardy

Category

Coulomb's
Law

Final Jeopardy Answer

- The charge of the plastic or rod is the amount found when the distance between the rod and plastic is 15cm and the mass of plastic is 1g.

Final Jeopardy Questions

- What is $0.1565\mu\text{C}$?