

THE MECHANICAL UNIVERSE

Video 29 - The Electric Field

Name: _____

Class: _____

1. The life of which physicist would have embarrassed even the most shameless novelist?
2. Describe Faraday's dependence on mathematics:
3. What did Coulomb demonstrate?
4. What striking similarity do the forces of gravity, electricity and magnetism share?
5. What word means "flow" in Latin?
6. What gas did Faraday liquefy?
7. What device did Faraday invent that harnessed the power of electric current?
8. Faraday's "lines of force" end on what kind of charges?
9. Describe what is meant by electric flux?
10. What is special about the electric field inside a conductor?
11. What is a Faraday cage?
12. Why do we continue to teach some theories that we no longer believe to be true?