Unit 6 Electricity and Magnetism

Archdiocese standards 8th

32. identify units of electrical measure

34. identify how electricity is produced by generators and motors

35. A.C and D.C. current

36. describe Ohm’s law and application

State of Ohio standards 9th

* Movement of electrons
* Current
* Electric potential ( voltage)
* Resistors and transfer of energy

Concepts-

Chapters 19,20,21,22( in part)

**Concepts covered and goals**

Driving Question- How does the electricity in your house work?

1. Recognize types of outlets and plugs in household items ( 110 vs 220 volt)
2. identify high drain, low drain household appliances/equipment
3. explain what a fuse box is – its purpose and how it works
4. explain where our electricity comes from
5. identify need for energy conservation
6. identify alternative energy sources
7. explain what nuclear energy is
8. explain how current works
9. explain difference between AC/DC current
10. draw/label circuit parts
11. calculate/graph ohms law- volts, resistance, current, power

Activities

STEMM connection: designing circuits

Inquiry: PHET simulator, inquiry lab on circuits