

Big Idea 11: Energy Transfer and Transformations

Electricity

Description

This 3D lesson covers Charge, electron, static electricity, etc.

Slide Titles

- 1-Charge
- 2-Electron
- 3-Static Electricity
- 4-Circuits
- 5-Voltage and Current
- 6-Inside a Battery
- 7-Atom
- 8-Insulators

Google Questions

No questions available

Standards Based Questions:

- Explain the difference between conductors and insulators
- Describe how the flow of energy can cause heat
- Describe a closed circuit

Books on Big Universe:

Primary:

- Electricity

Intermediate:

- Electricity
- What is Electricity
- It's Electric currents

Electronic Circuits

Description

Content covers types of circuits

Slide Titles

- 1- What are the Components of an Electronic Circuit?
- 2- Types of Circuits
- 3- Integrated Circuits
- 4- Circuit Connections
- 5- Semiconductors
- 6- Electronic Circuit Design

Google Questions

Questions range from how circuits are built to the function of them.

Standards Based Questions:

- Create a diagram that shows the flow of energy
- Describe a closed circuit
- Explain the purpose of a conductor and insulator and give examples

Books on Big Universe:

Primary:

- Circuits

Intermediate:

- Circuits
- Electrical Circuits
- Electricity in the Real World

Other Lesson that could be used:

- History of technology