

Electricity Teacher's Guide

Concepts for Electricity Field Trip

1. Electricity travels in a closed loop called a circuit.
2. Electricity flows through materials that conduct electricity; called conductors.
3. Electricity always takes the easiest path to ground.
4. Water is a conductor of electricity. We are also conductors of electricity because the human body is mostly water.
5. Vocabulary

Discovery on PowerZone

Safety: powerzone.clarkpublicutilities.com/learn-about-water/

Safety Videos:

- Birds: youtu.be/7m8_GrIYRTk
- Cars & Poles: youtu.be/jC29KgDg7-s
- Transformers: youtu.be/EIGoLC5LAAY
- Fire: youtu.be/LdC49VqKXYo
- Toaster: youtu.be/FKBu9Ez-MH8
- Kites & Substations: youtu.be/dK9utq31_5Q

Activities

Outlets (printable or online): powerzone.clarkpublicutilities.com/games/clark-outlets/

Kites (printable or online): powerzone.clarkpublicutilities.com/games/clark-kite-safety/

Electrical Safety (vocabulary & concepts):
powerzone.clarkpublicutilities.com/games/electric-safety-crossword/

Basics of Electricity

Basics: powerzone.clarkpublicutilities.com/learn-about-water/systems/

Basics Video: youtu.be/FXpppzwtqF8

Activities

Electricity Facts Crossword (printable or online):

powerzone.clarkpublicutilities.com/games/electricity-facts-crossword/

Electric Knowledge Crossword (printable or online):

powerzone.clarkpublicutilities.com/games/electric-knowledge-crossword/

Electricity Word Search (printable or online):

powerzone.clarkpublicutilities.com/games/electricity-word-search/

Circuit and Distribution

Energy Transmission and Distribution: powerzone.clarkpublicutilities.com/learn-about-electricity-energy/energy-distribution/

Energy Distribution: powerzone.clarkpublicutilities.com/learn-about-electricity-energy/energy-distribution/power-distribution-map/

Power Source Matching Game: powerzone.clarkpublicutilities.com/games/power-source-matching/

Conductors and Insulators

Insulator Matching Game: powerzone.clarkpublicutilities.com/games/insulator-matching/

Conductor Matching Game: powerzone.clarkpublicutilities.com/games/conductors-matching-game/

Vocabulary

Vocabulary Activities (under related subject): powerzone.clarkpublicutilities.com/energy-and-environment-resources/utilities-glossary/