

The Science Shelf: Electricity curriculum

Introduction

Lesson 1 Safety: batteries and outlets



Lesson 2 History: Benjamin Franklin



Full Lesson List

This list represents 20 weeks of 15-30 minute weekly lessons.
Introduction to Electricity

- 1: Safety: Batteries & Outlets
- 2: Ben Franklin and his Kite

Static electricity

- 1: Intro to Static Electricity
- 2: Separating Salt & Pepper
- 3: Bending Water
- 4: Sticky Balloons
- 5: Climbing Crispies, Dancing Dolls
- 6: Electrometer

Current Electricity

- 1: Transition to Current
- 2: Simple Light Circuit
- 3: Light Circuit With a Switch
- 4: Short Circuit
- 5: Different Types of Switches
- 6: Snap Circuits Light
- 7: Short Circuit revisited
- 8: Snap Circuit switches

Motors

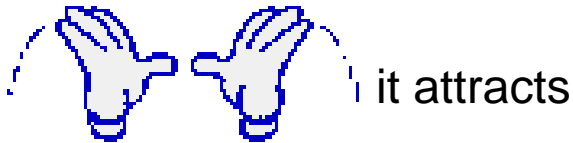
- 1: Magnets and Compasses
- 2: Compass and Wire
- 3: Electromagnet
- 4: Simplest motor
- 5: Visible motor
- 6: Motor with attachments
- 7: Hovercraft

Advanced Exploration

Selected projects for 6-year-olds

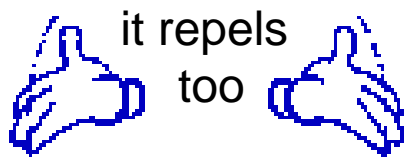
Part I: Static Electricity

Lesson 2: Salt & pepper & 3: bending water



5: puffed rice, paper dolls

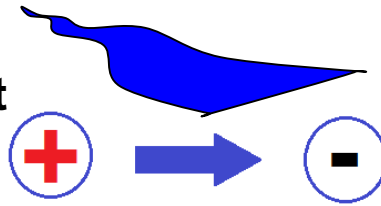
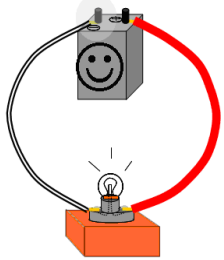
Lesson 4: balloons



5: electrometer: measure it

Part II: Current Electricity

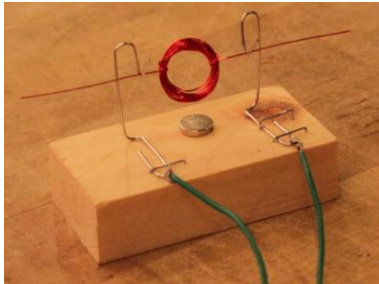
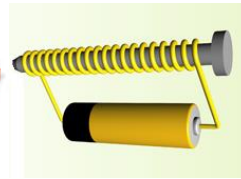
Lesson 1: Transition to Current



Lessons 2-8: Simple circuits, conductivity, switches, short circuits

Part III: Motors

Lessons 1-3: transition to motors



Lessons 4-7: simple motors and applications

The Science Shelf

STEM curriculum for
Children's House

Series I: Electricity



...and advanced exploration