

Day 1 - Electricity (1) – Introduction to Electricity

Learning: where does electricity come from?

Craft 1: Make a tealight House

Need:

1. Copy of Instructions
2. House & Roof Template
3. Tea Light
4. Baking Paper
5. Felts
6. Cellotape
7. Scissors
8. Paper Clip



Make a small town with house attached with power lines and all connect to power station. (see attachments)



Explain where electricity comes from and how the electricity travels to your home.

Experiment 1: Sort electricity cards into what needs electricity and what does not? Discuss

Experiment 2: Generate electricity using three different generators (Wind, Hand & Solar). Discuss how the generators work.

Discuss the difference kinds of power stations eg Hydro, Wind, Coal, Solar

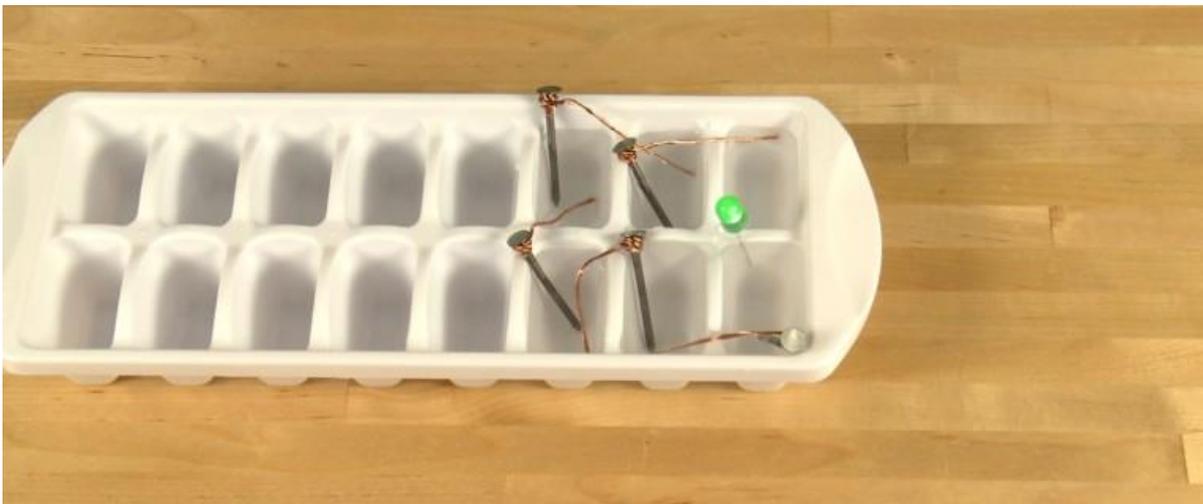
Experiment 3: Make battery out of Vinegar.

Need:

1. Vinegar
2. Ice block trays
3. LED Lights
4. Copper Wire
5. Zinc Nails

Method:

1. Fill six wells of an ice tray with vinegar.
2. You'll create a circuit by placing each nail into one well of vinegar and making sure the copper wire is bent so that it goes into the vinegar in the next well. The wire is an electron bridge from one well into the next. Make sure the wire from one nail does NOT touch the nail or wire in any other well. There should be only vinegar between the metals in each well.



Experiment 4: Solar Cars

Take solar cars outside and play a game.