What are the different Types of Energy?
Types of Energy

- Thermal Energy
- Radiant Energy
- Light Energy
- Chemical Energy
- Nuclear Energy
- Electrical Energy
- Gravitational Energy
- Mechanical Energy
Plants convert light energy into chemical energy
Today we will use chemical energy stored in soils to make electricity and light energy.

This is a soil battery!
What is soil?
What is soil?

How does a battery work?

Chemical energy stored when battery not in use.

Electricity generated when battery is connected to a device.

electrons
Steps to make a soil battery

1. Mix soil with water + vinegar until soil is wet.
2. Wrap a piece of copper wire twice around a metal screw.
3. Insert the screw in one cup and the copper wire in the next cup.
4. Repeat until you’ve gone all the way around, but don’t connect your end to your starting cup.
5. Insert light into starting and ending cup, watch it light up!
Where do we find batteries?
Where do we find batteries?

Everywhere!
How does a battery work?

Chemical energy stored through chemical reactions when battery not in use. Electricity generated by movement of electrons when battery is connected to a device.
How does a soil battery work?
How does a soil battery work?

Chemical energy storage in soil generates electrons when not in use. Electricity is generated when the battery is connected to a device. Electrons flow through the circuit, powering the device.
How does a soil battery work?

Our soil battery converts stored chemical energy into electricity when we build a path for electrons to flow.