



## Understanding Electricity Design Challenge

### DESIGN CHALLENGE Notes:

This design challenge explores how electricity actually works

**Problem:** We need to be able to understand electricity as it can be dangerous.

**Challenge:** Using a just basic understanding of electricity create a story board of how electricity works.

### Materials:

We need a computer for research

We need a whiteboard or big paper pads

We need pens or pencils or dry erase markers

We need a 9 volt battery

### Brainstorm:

1. What is electricity?
2. Where does light come from?
3. What are batteries?
4. How do we get power usually?

### Design/Build:

1. Design a story about electricity
2. Make a skit about how electricity works.

### Test:

- What happens when you try your design?
- Can you be sure you are right?
- Can we tell it is working? How?
- Did your audience understand?

### Evaluate:

- How will you record your results?
- How will you know it is working?
- What would you modify to test your results?
- What would you do differently?

### Share:

- Record your tests on a chart.
- Which idea of electricity works better?
- How did you know?