

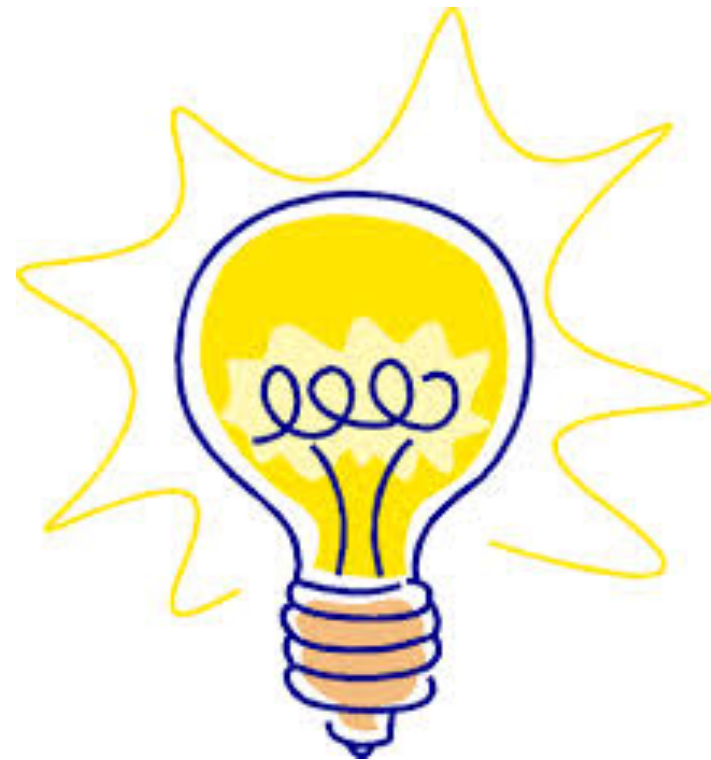
let's talk   
science  
partnership program

**Electricity**

# Agenda

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science

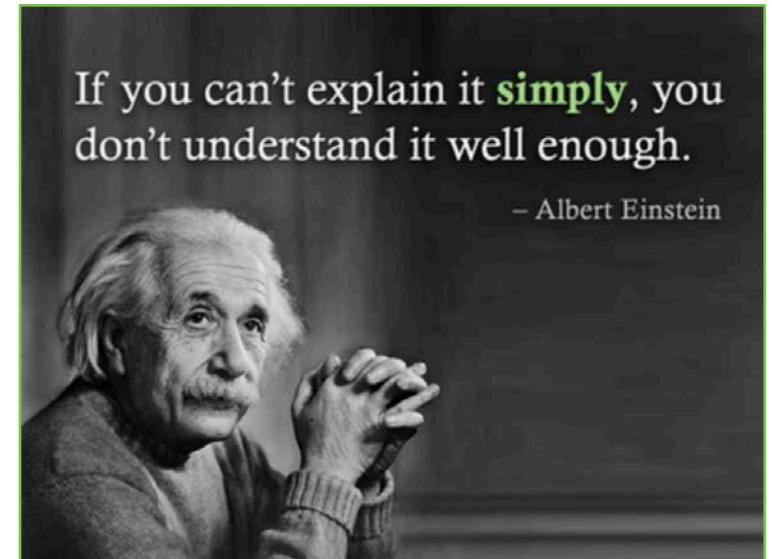
- Introduction
- Electricity
- Circuits
- Activity
- Conduction
- Experiment
- Conclusion



# Introduction

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- What do scientists do?
- Where are they?
- What types of scientists are we?
- How does this type of science affect you?



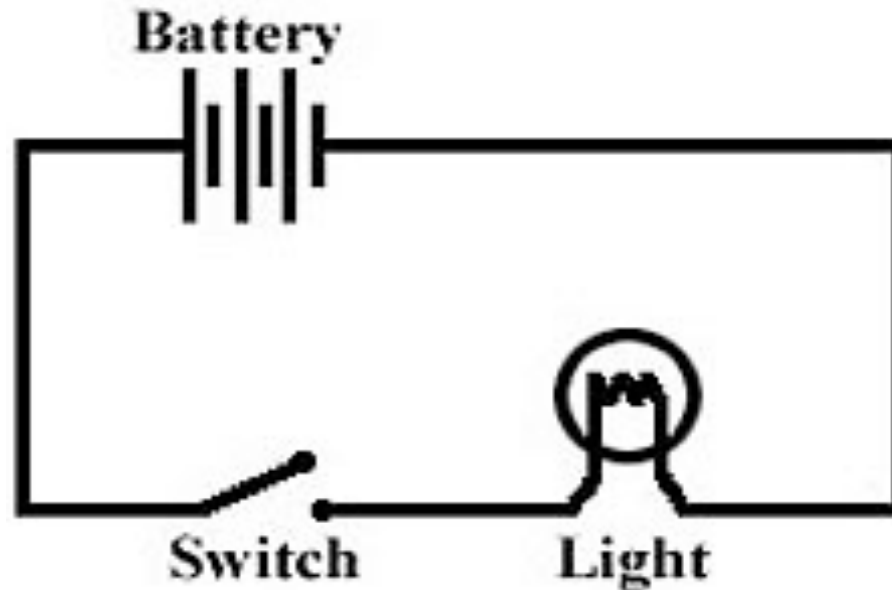
## Electricity

- What is it?
- Where do you use it?
- What does electricity do?
- Where does it come from?



## Circuits

- What is a circuit?
- What are the parts to a circuit?
- Where do you find them?



- Make circuit

# Get Moving!

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- 5 student volunteers
- Follow path
- Pass the load (high five=light)
- Switch
- Resistor
- What happens?



## Conduction

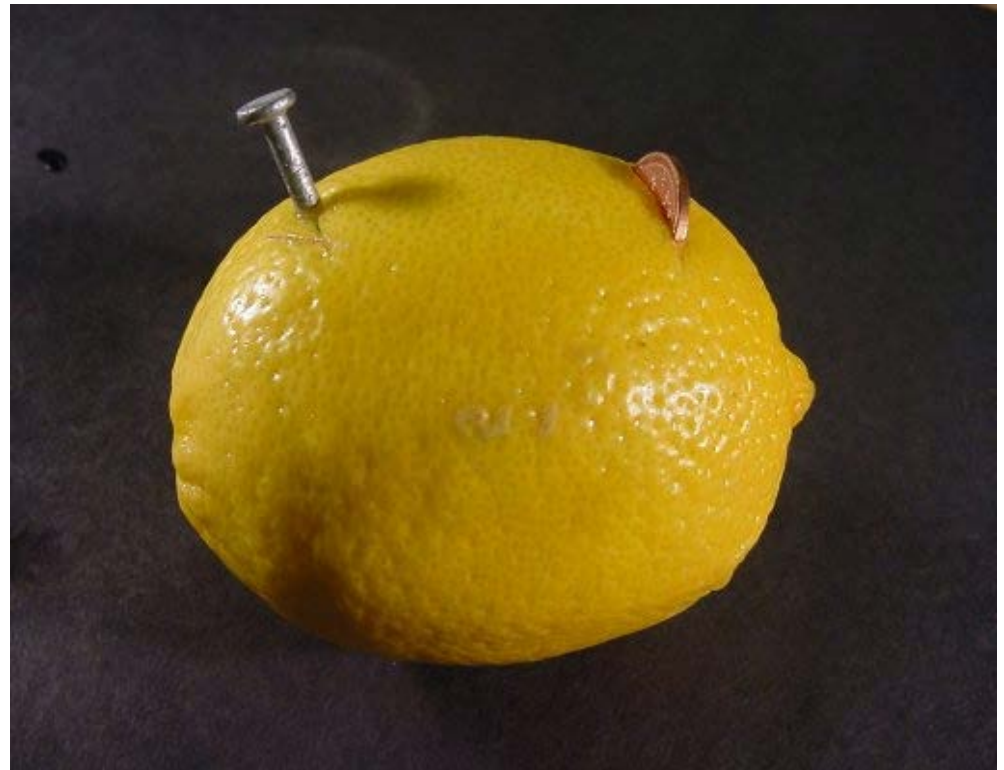
- What do electrons travel through?
- Can they travel through anything else?
  - Rubber?
  - Water?
- Try it!
  - Distilled water, sugar water, salt water





## Lemon Battery

- What will we need to make this circuit?
- Voltmeter
- Is there enough power for the light?
  
- <http://www.youtube.com/watch?v=AY9qcDCFeVI>





## Lemon Battery

- How can we generate more power?
- Try it out with the light
- Voltmeter
- Solution



- How? Oxidation of Zinc; gaining and losing electrons causes power in the acidic lemon

# Conclusion - Electricity

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- What is electricity?
- Where does it come from?
- Does water conduct electricity?
- Can we sometimes use food to as a power source?
- How did we increase the voltage in the lemon battery?
- What did you learn?



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**Thanks for having us!**