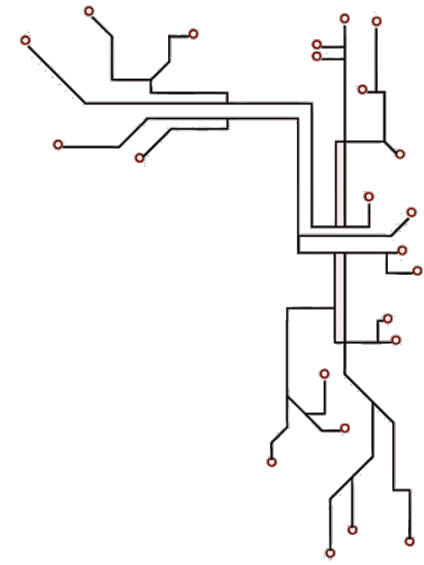
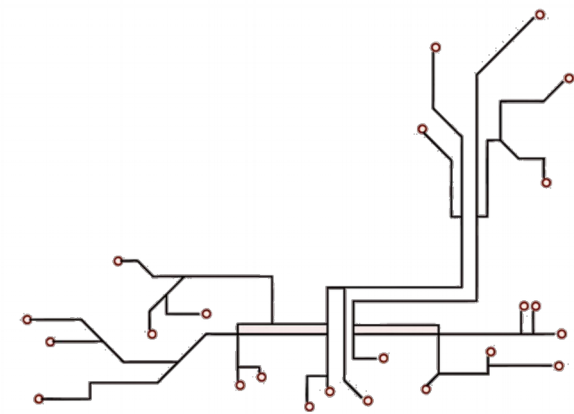


**MAKING**



with

**ELECTRICITY**



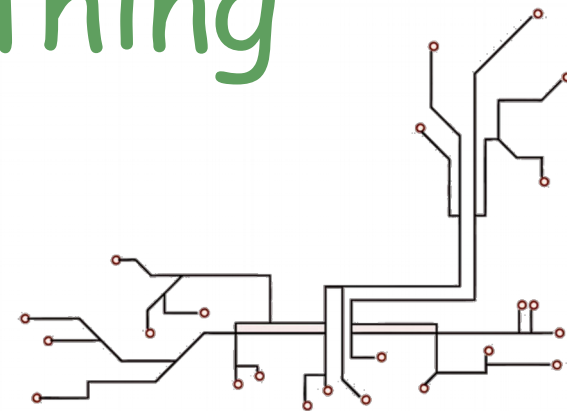
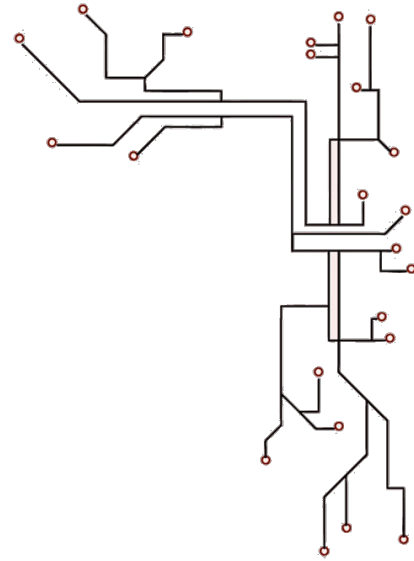
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# What is Making???

## The Act

## of

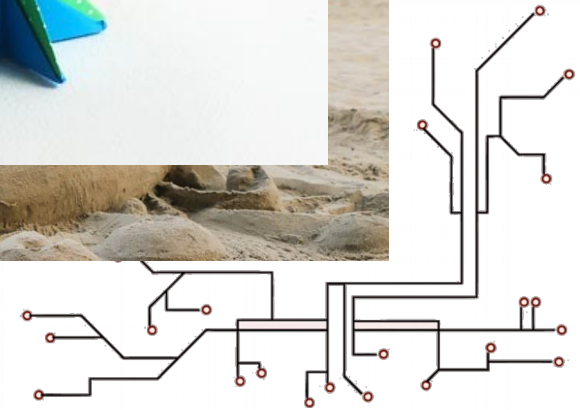
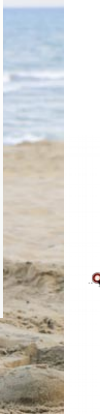
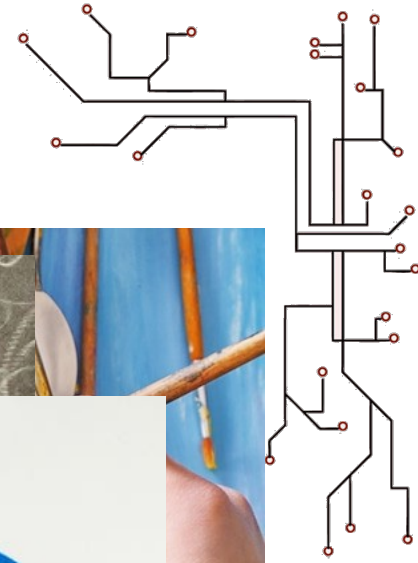
## Creating Something



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# How Do You Make?



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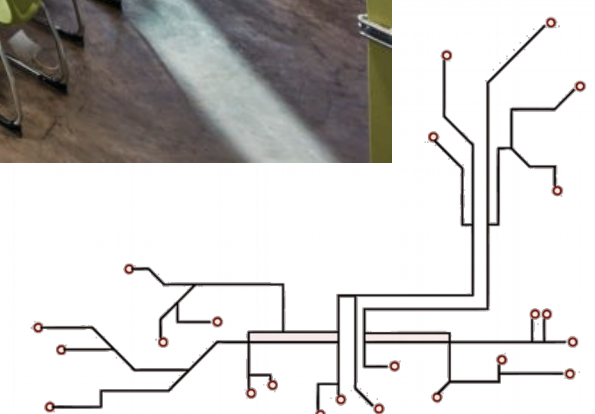
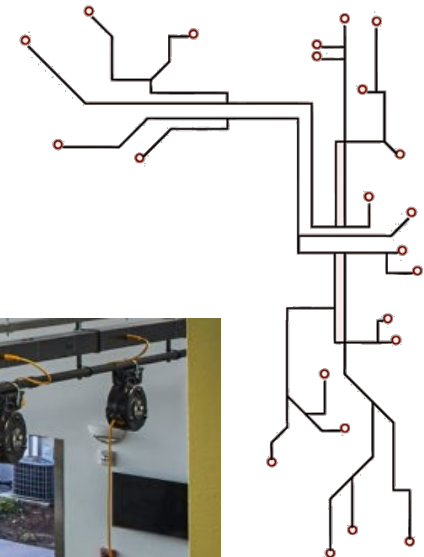
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# MakerSpace



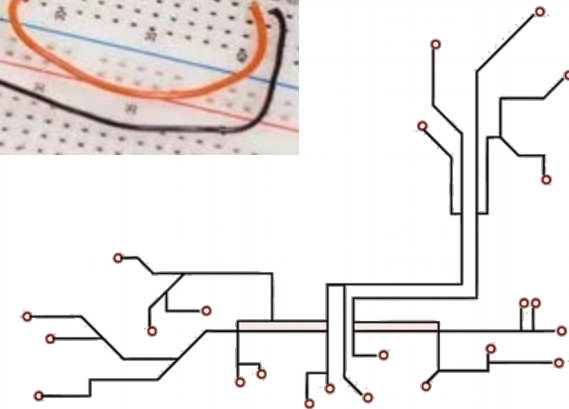
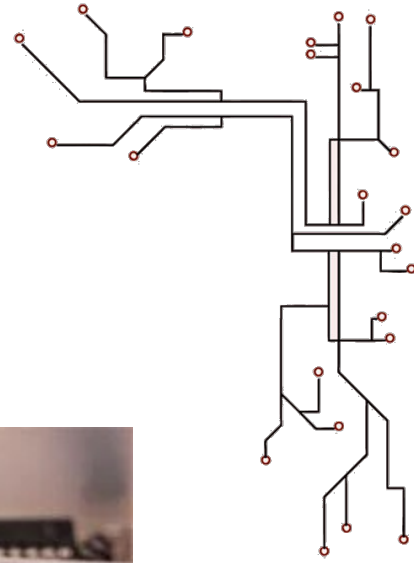
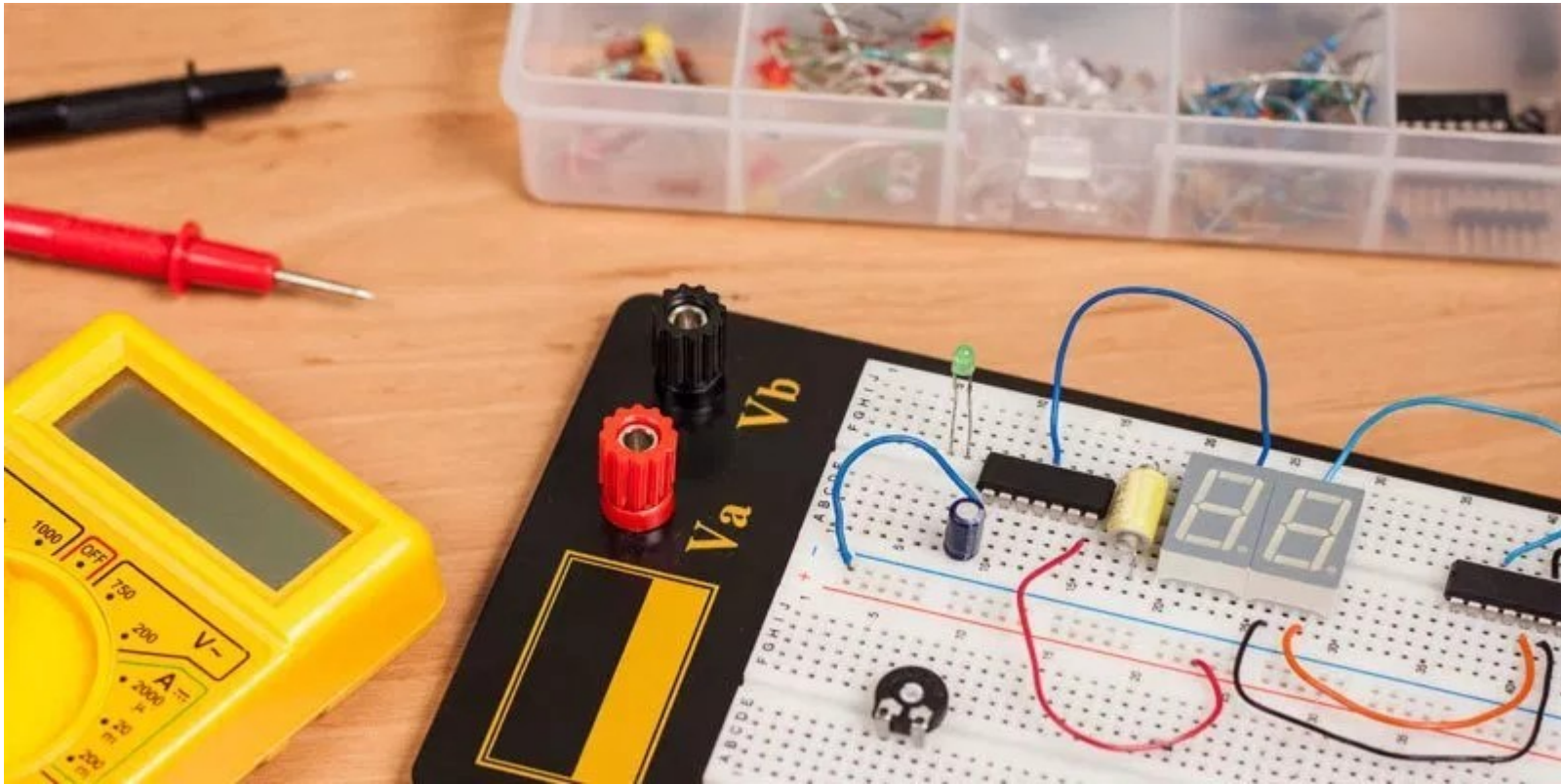
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# Electronic MakerSpace

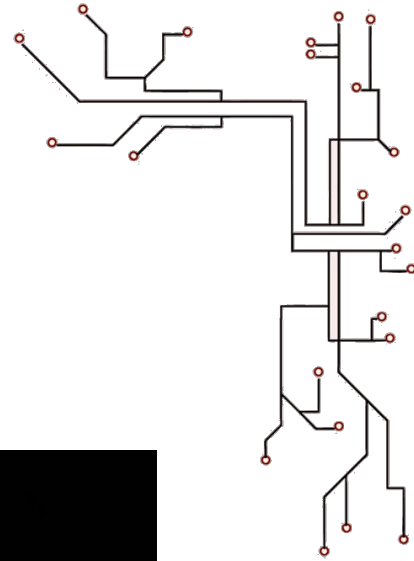
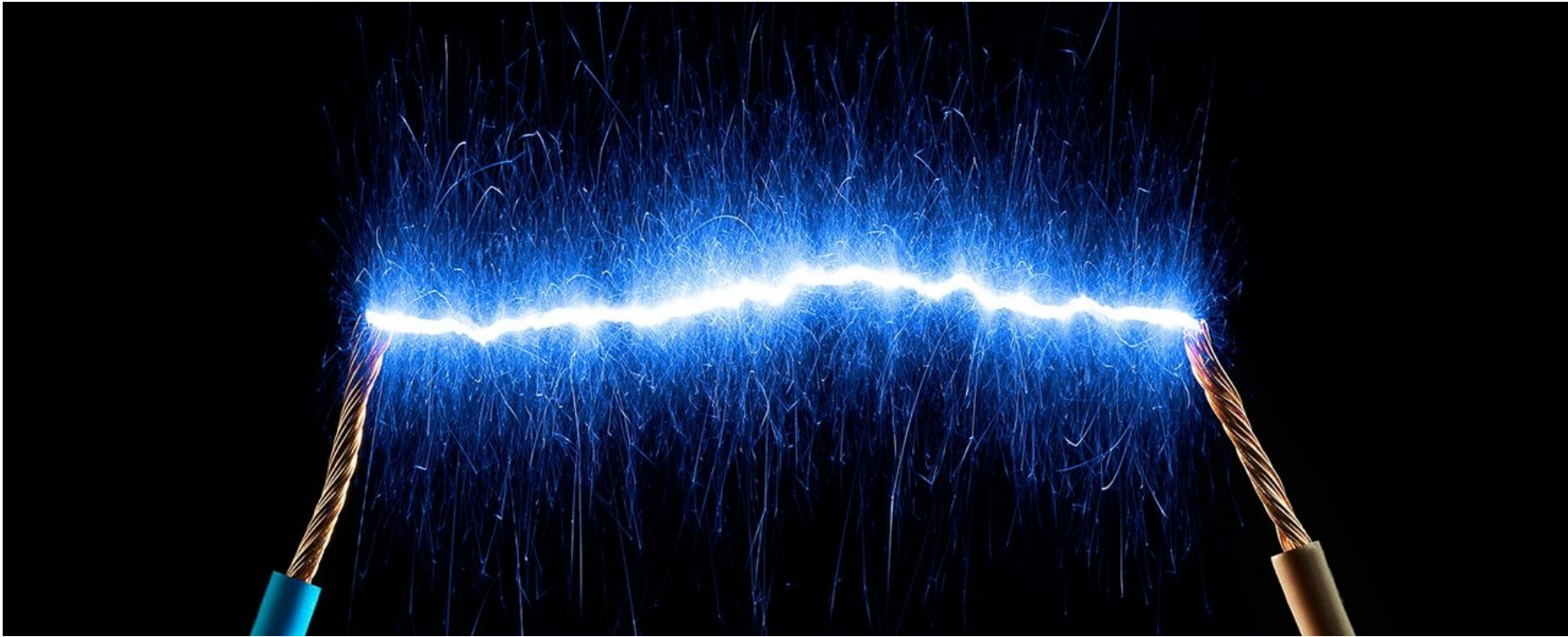
Use Electricity & Electronics to make...



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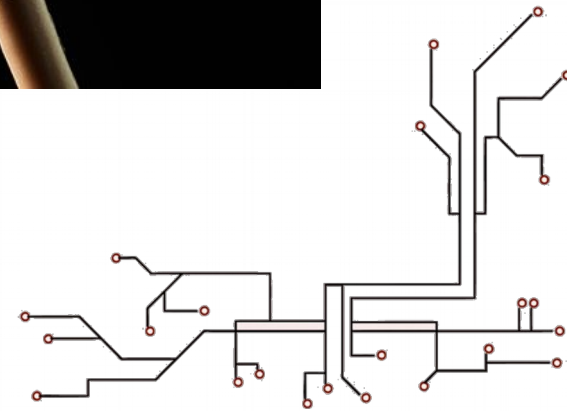
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# What is Electricity?

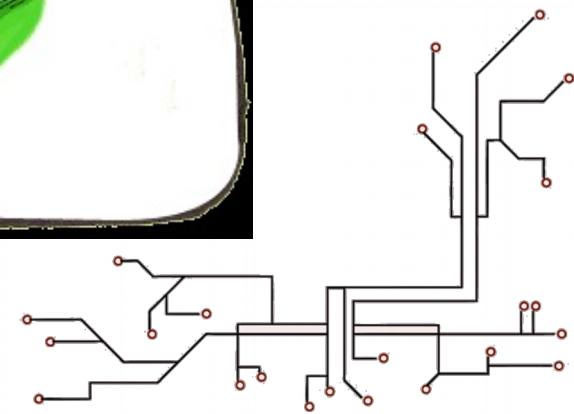
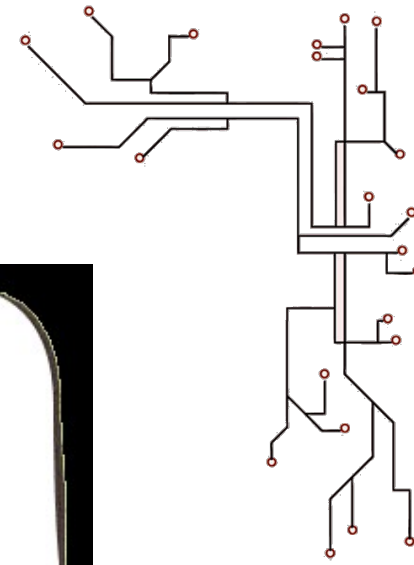
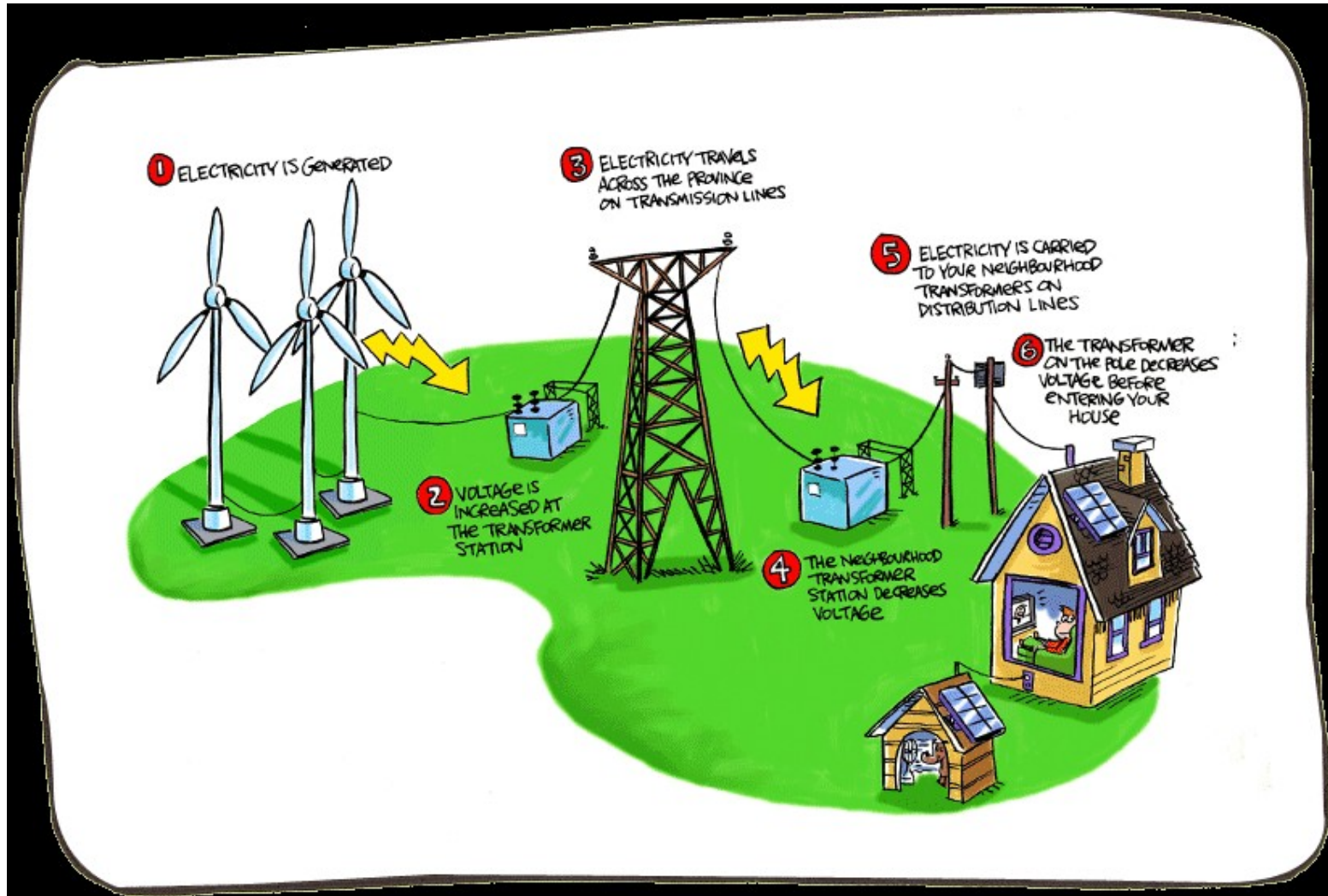


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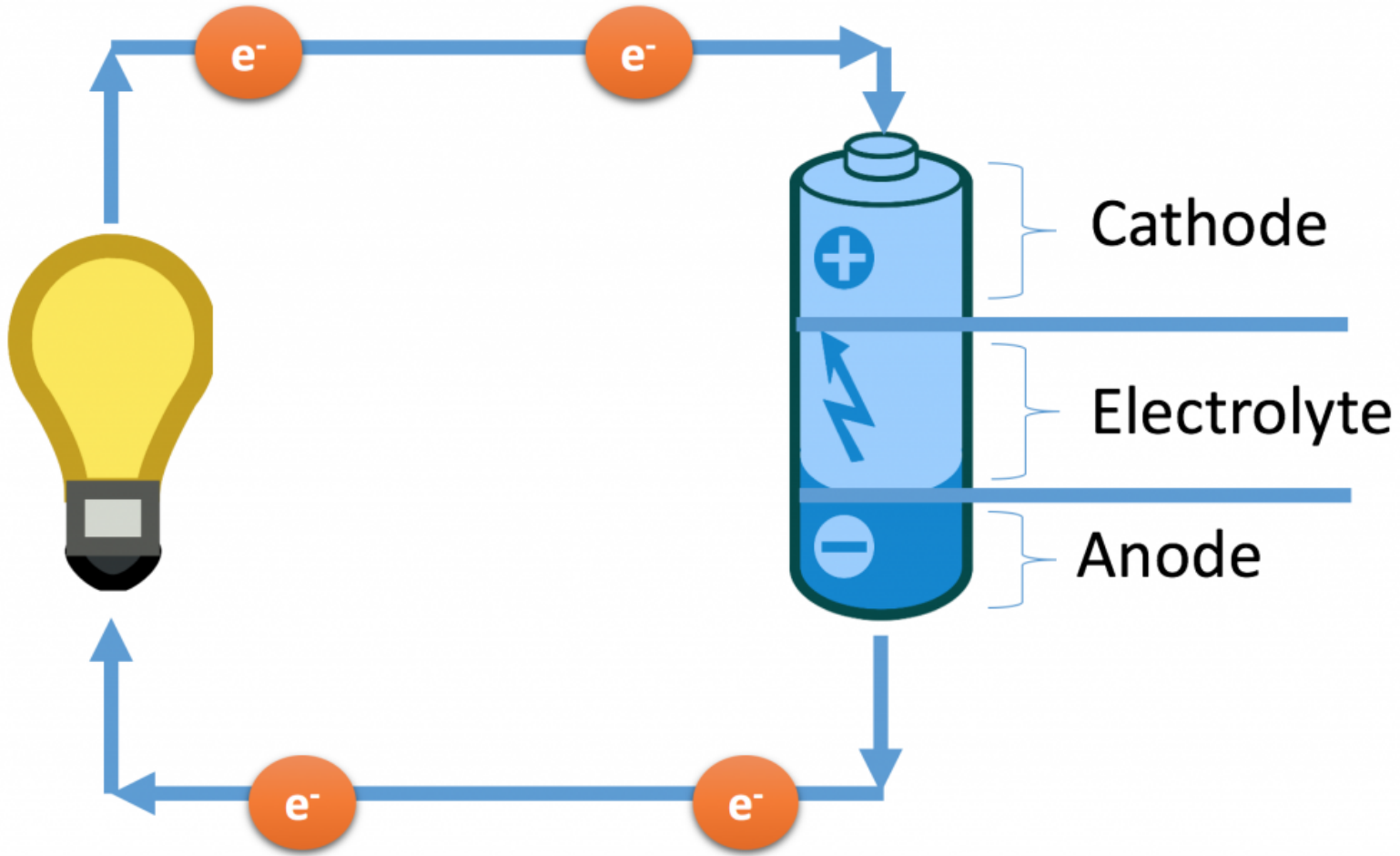
# What is Electricity?



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# Let's Get Some Electricity!

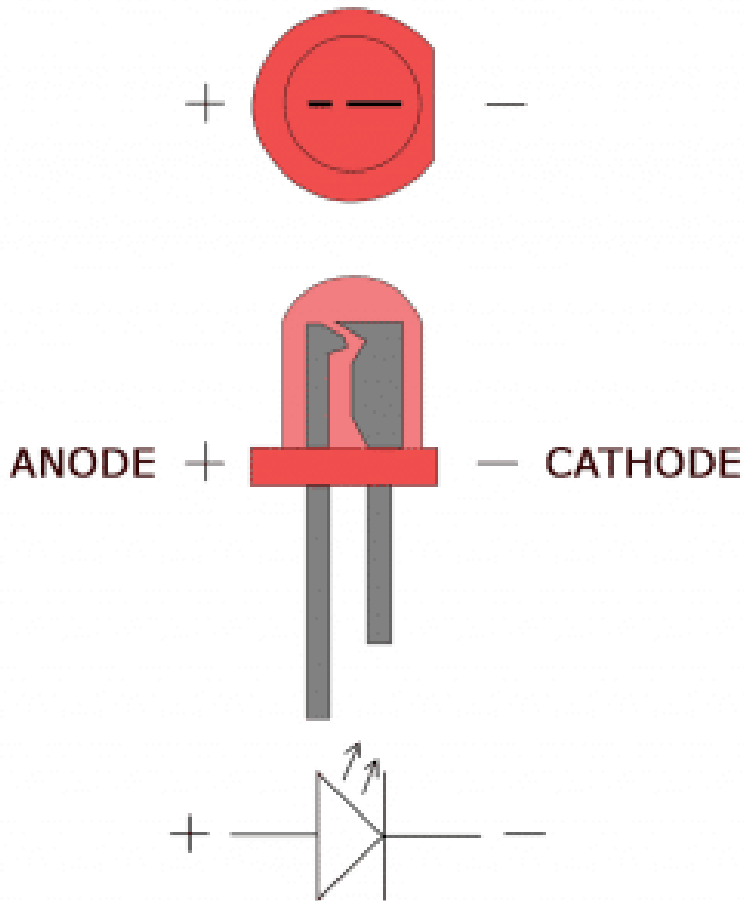
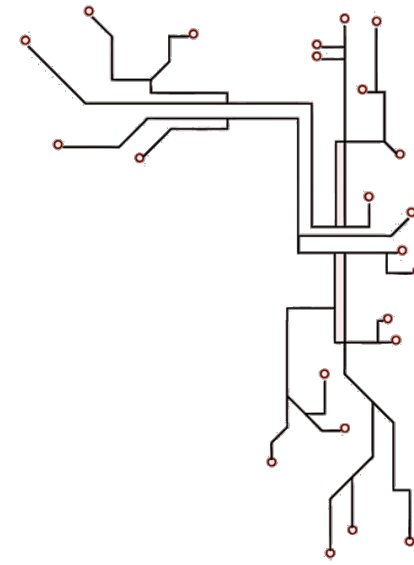


**A POSTERIORI**

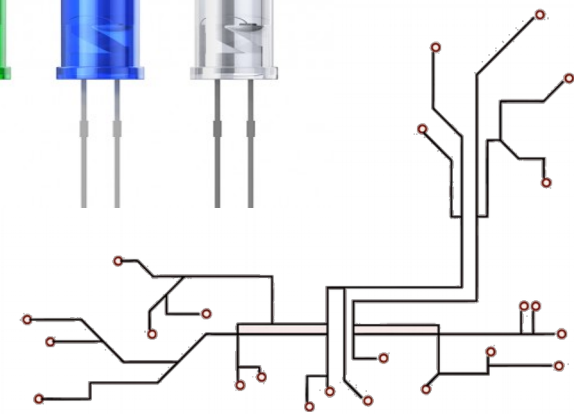
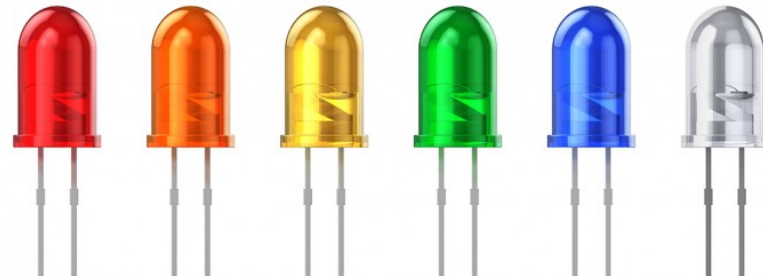
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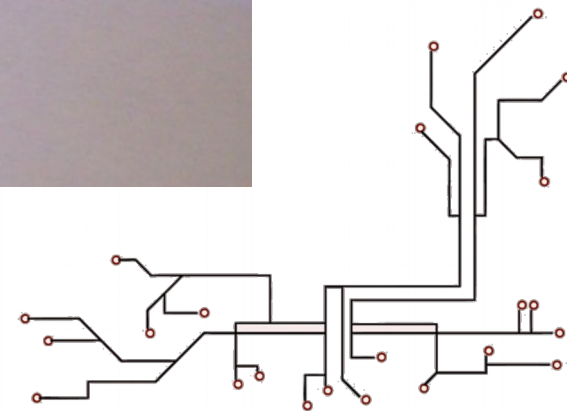
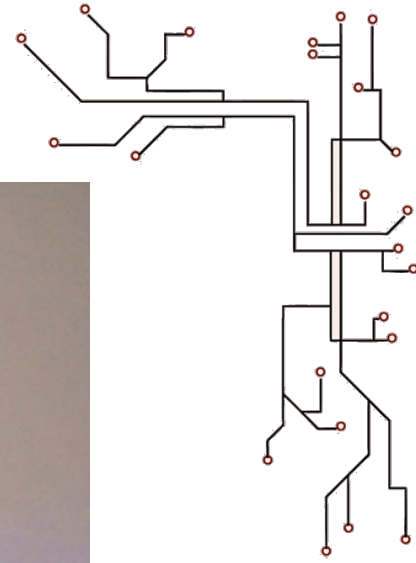
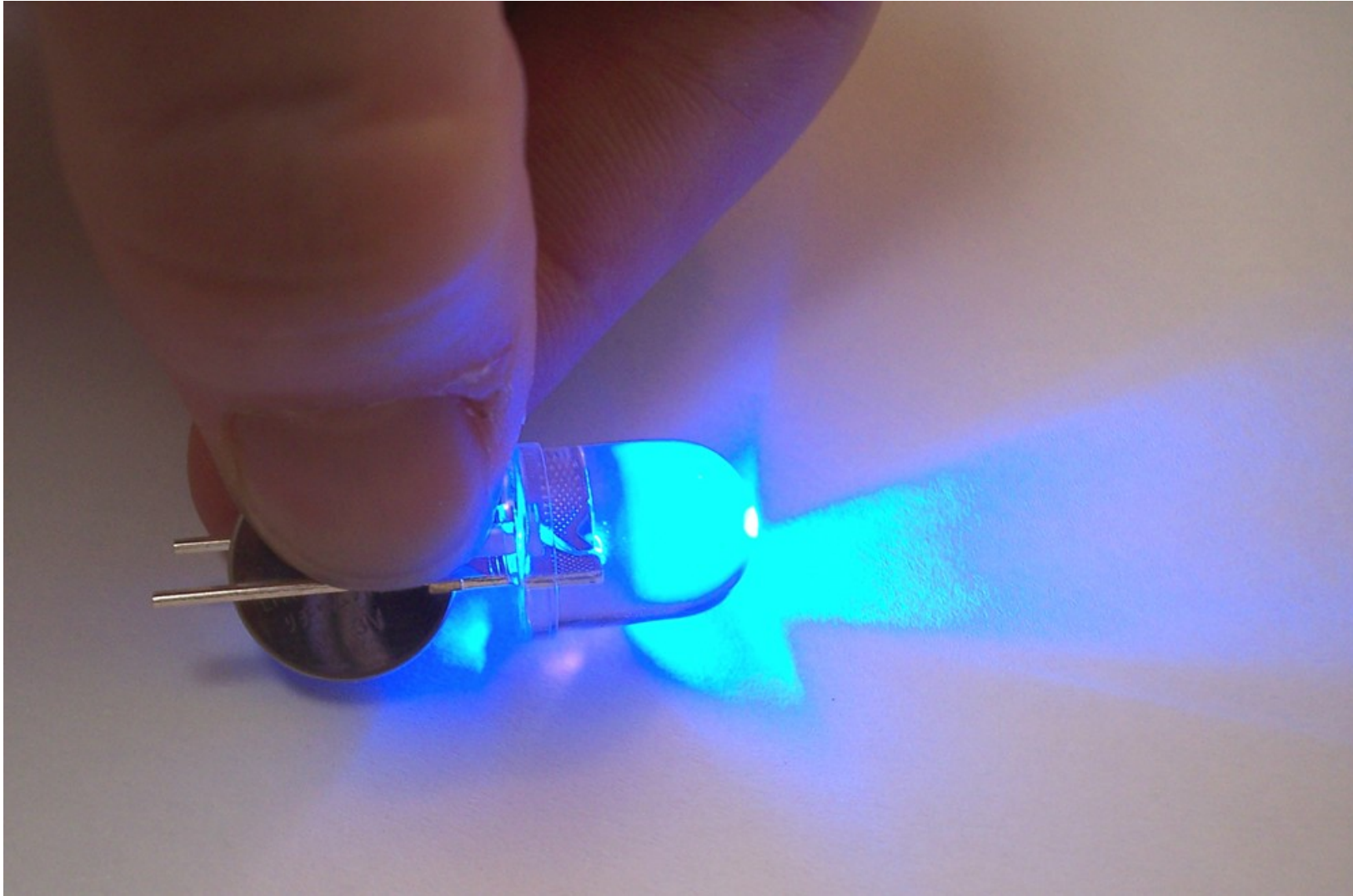


# Let's See Some Electricity!

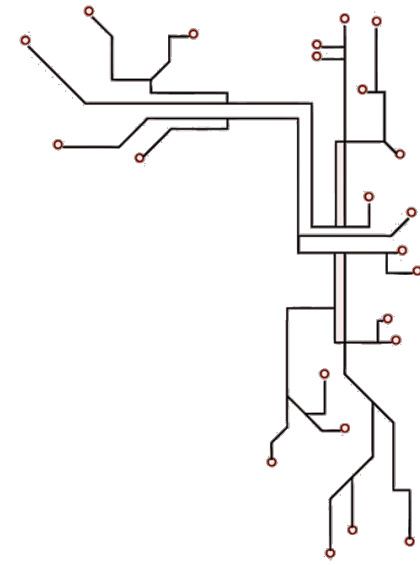


Light emitting diode





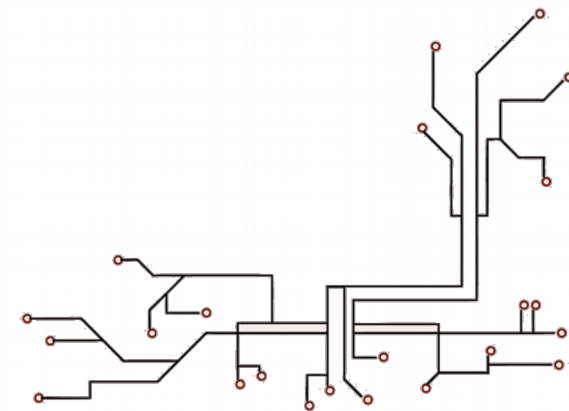
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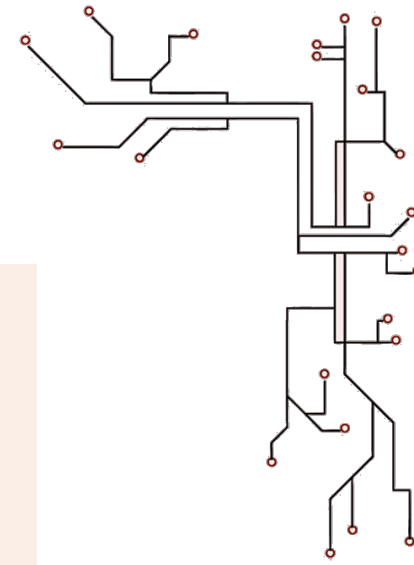
# ACTIVITY

## Make Your LED's Light Up!

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# Conductors & Insulators



## 5 Electrical Conductors



silver



gold



copper



steel



sea water

## 5 Electrical Insulators



rubber



glass



oil



diamond

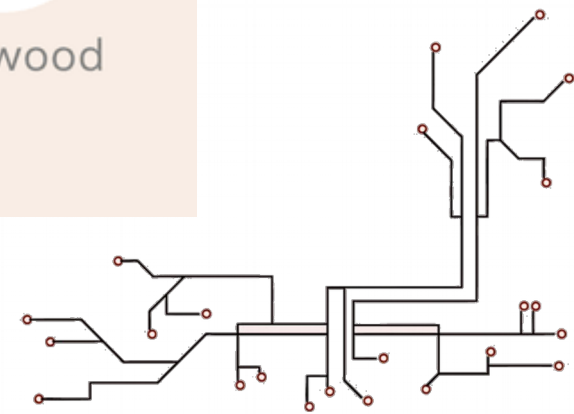


dry wood

ThoughtCo.

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# SAFETY MATTERS

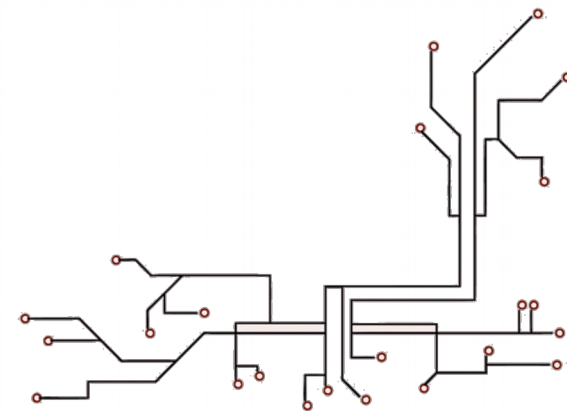
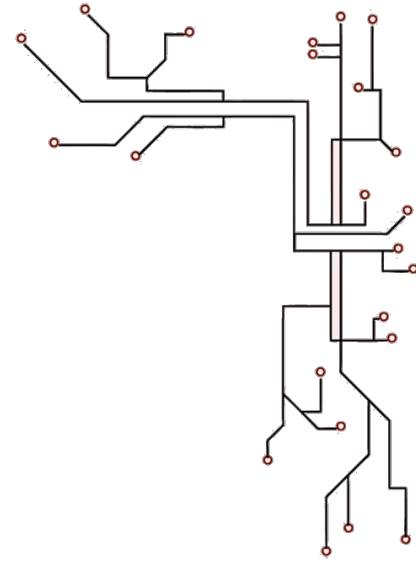
MakerSpaces can be safe environments, or scary and hazardous.

It's our behavior that count!

A pencil can be more dangerous than scissors...

Some basic rules:

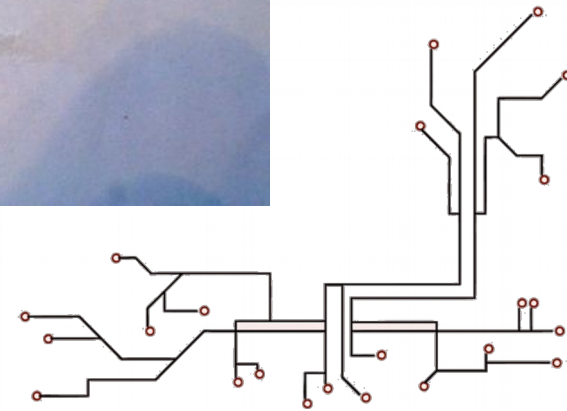
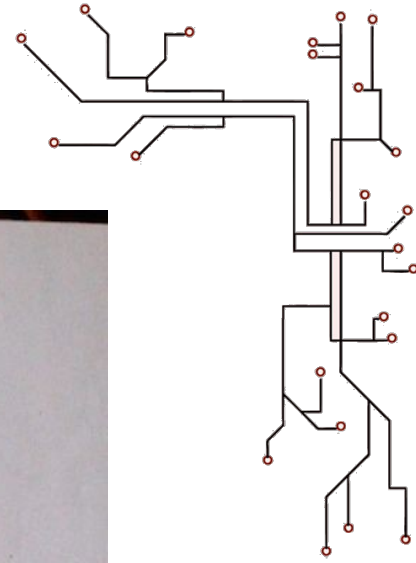
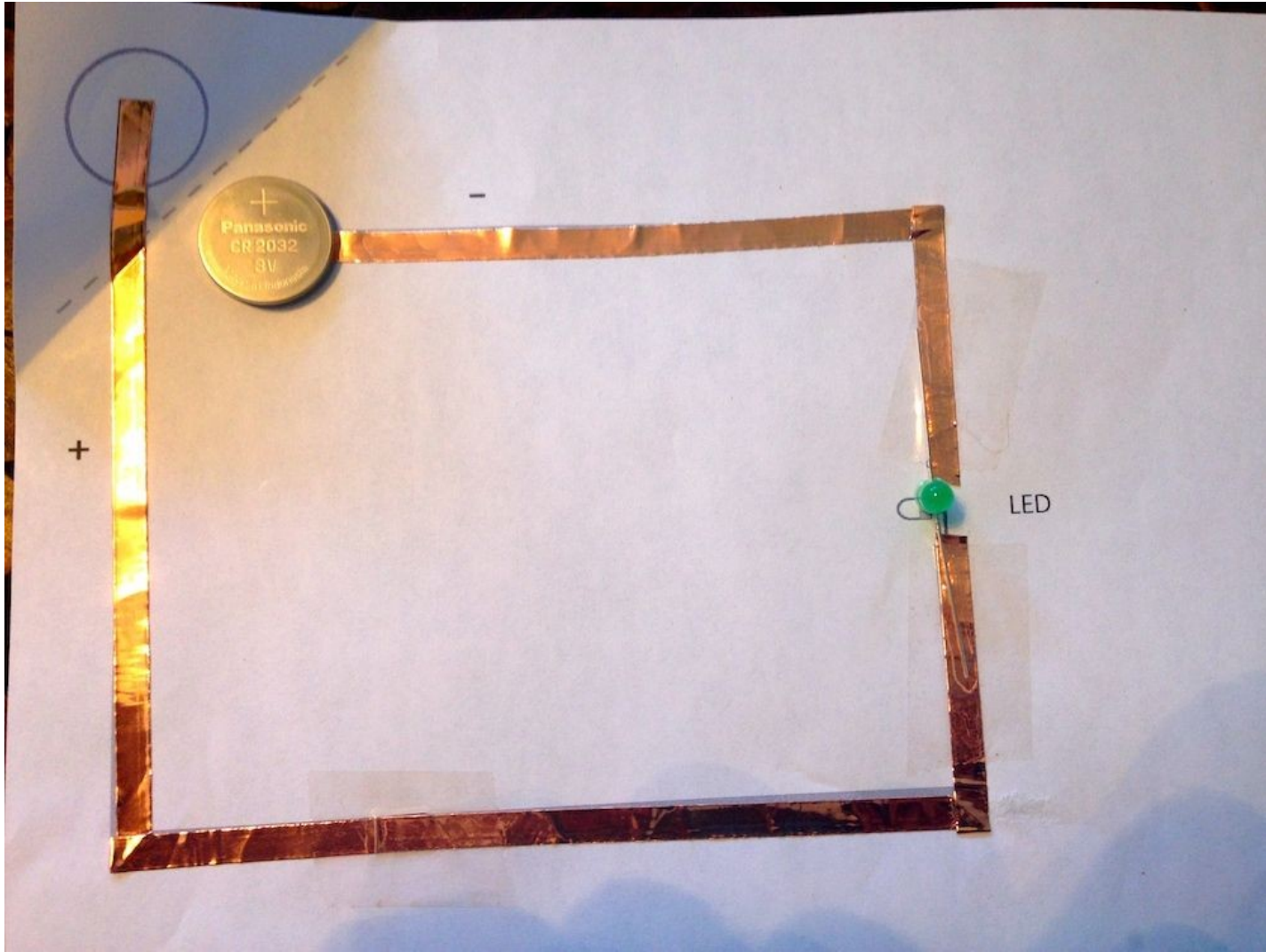
- No Running Around/Horseplay
- Scissors and sharp tools should be properly put away after use
- No handing scissors or other sharp tools to one another
- Keep floor and working stations clutter-free



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# Make an Electric Circuit

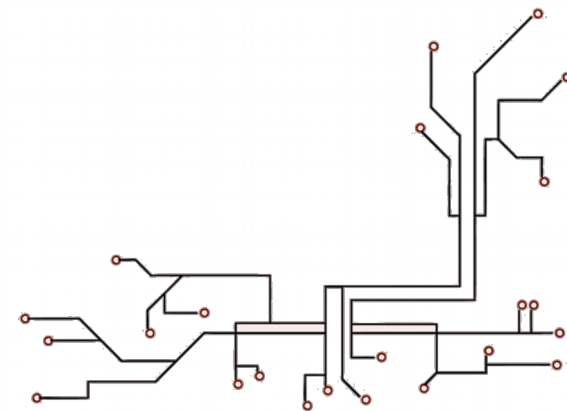
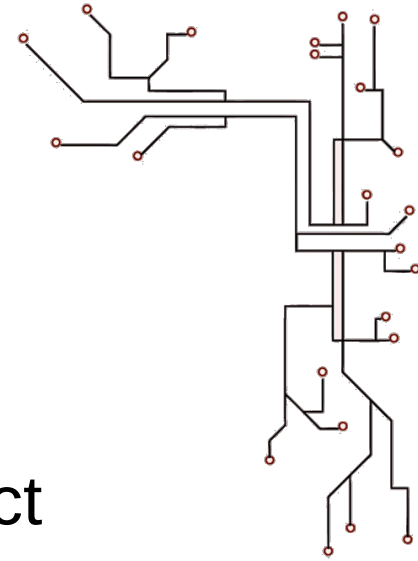


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# Testing an Electric Circuit

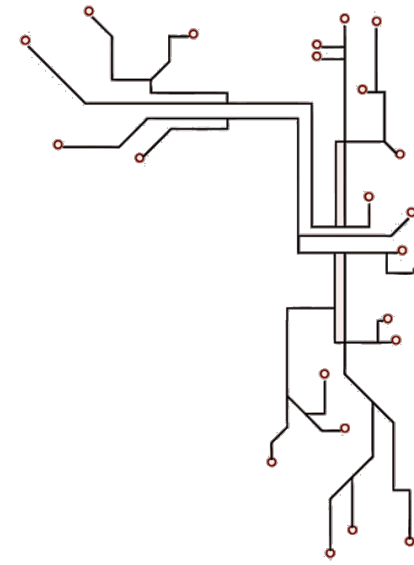
Make sure:

- Different conductors make appropriate contact
- There is no short circuit
- Polarity is correct  
(+ to long LED leg, - to short LED leg)
- 
- Use multimeter to find breaks



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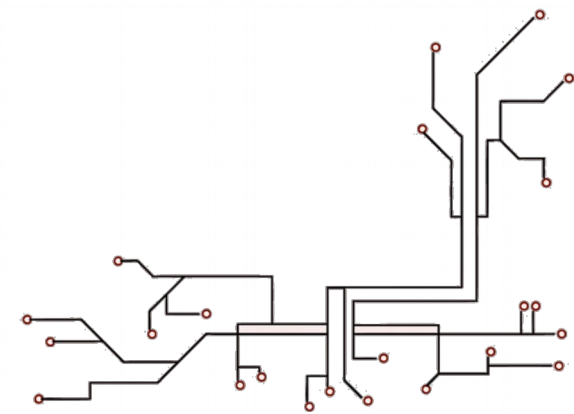
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# ACTIVITY

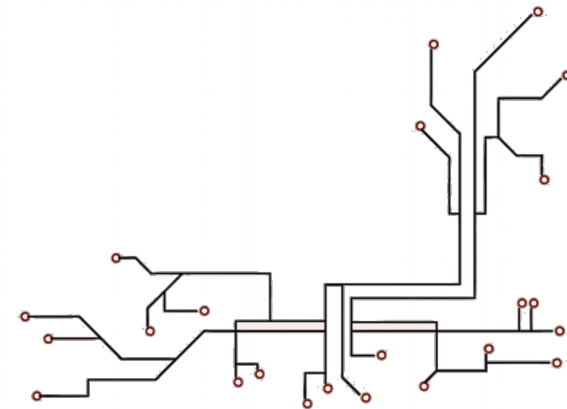
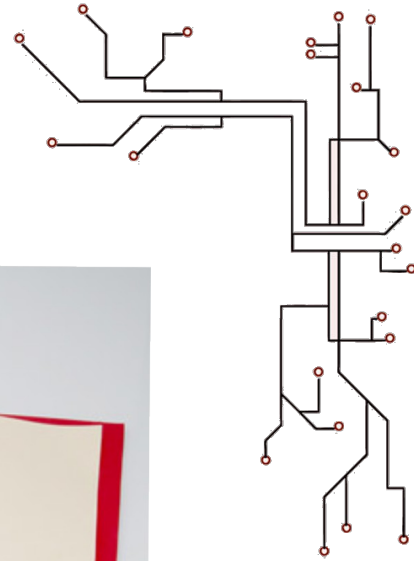
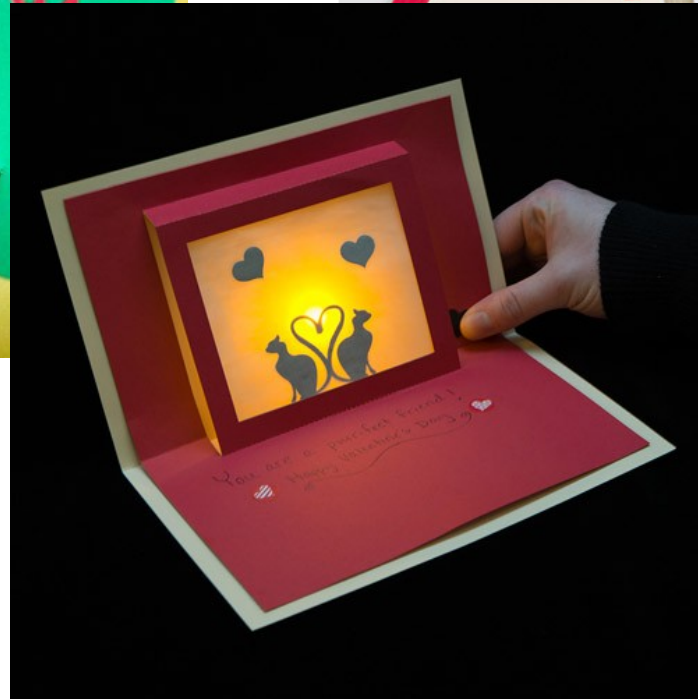
## Make a Circuit!

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# E-Greeting Cards



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# ACTIVITY

## Make an E-Art or E-Greeting Card!

