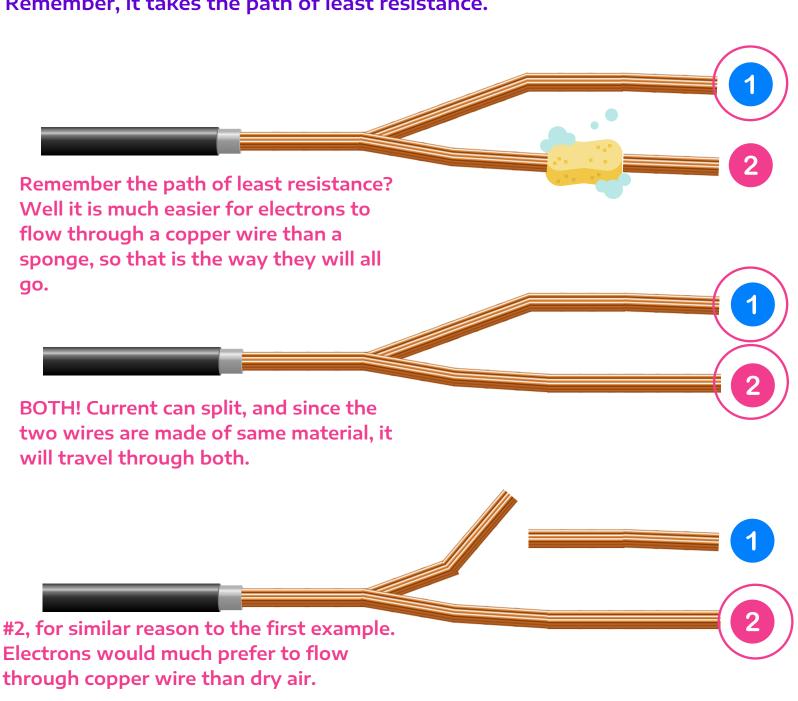
Flashlight - Activity Guide



What are a few items that rely on circuits to function?

Cell Phones, Refrigerators, Laptops, Cars, Televisions, Air Conditioning units, Lights, & TONS MORE.

Circle which way (or both) that the electrical current will flow? Remember, it takes the path of least resistance.





Quiz



- 1. Why are we tasked with building a flashlight in the first place?
 - ~Power has gone out in STIIX-Ville. Before the backup generators come on, families need flashlights to be able to see in the dark!
- 2. Who is Benjamin Franklin?
 - ~Benjamin Franklin is the inventor who is credited with discovering electricity. He performed the famous kite and key experiment.
- 3. Name at least two things you do / rely on every day that are powered by electricity:

Turn on lights, talk on the phone, watch tv, cooking, charge a device, etc.

4. What is the purpose of these tall wires you see around town?



~These wires are used to transfer electricity from where it is produced to cities where it is used.

- 5. What is the difference between a conductor & an insulator?
 - ~Conductors do a good job transporting electrons / electricity while insulators are not a good material for electrons to travel through.
- 6. Describe how a light bulb works in your own words?
 - ~Attached to wires that electrons flow through...as electrons travel through bulb, it is transferred to heat energy which then glows nice and bright towards the top!
- 7. What do you think about a career as an electrician or electrical engineer?