



# Third Grade Science

# 3rd Grade Science: Activity 4

## How does electrical energy affect our lives?



Directions: This handout can also accompany a KCSatHome Teacher Video. If you have access to the video, watch the video before doing this activity. You can find the videos at <https://www.knoxschools.org/Page/21816>

### While you watch the video, fill in the following blanks.

1. Energy is the ability to \_\_\_\_\_ something or cause a \_\_\_\_\_ in something.
2. \_\_\_\_\_ engineers design and build \_\_\_\_\_ or electrical devices.
3. Electricity is \_\_\_\_\_ caused by the movement of \_\_\_\_\_ through \_\_\_\_\_.
4. A circuit is the \_\_\_\_\_ made of parts that work together to allow \_\_\_\_\_ current to flow.
5. Electric \_\_\_\_\_ a flow of charged \_\_\_\_\_.

### Activity materials:

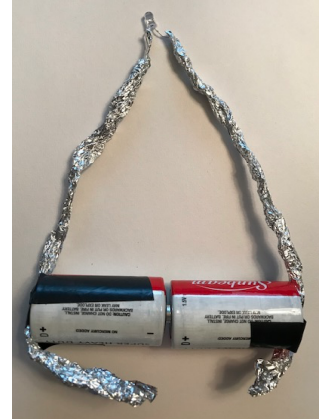
aluminum foil, 2 batteries, 1 LED light bulb  
(optional: electrical tape)

Draw a model of how you think these materials could be used to light the light bulb.



**Directions for activity:**

1. Tear off a sheet of aluminum foil. Create two crumbled wires.
2. Place the aluminum wires parallel to each other in the shape shown in the photograph.
3. Place batteries side by side (positive to negative) between the aluminum wires.
4. With one hand press aluminum wires to outside ends of batteries.
5. With the other hand, touch the extending wires from the LED bulb to the top of the aluminum wires.



**In the space below, write a narrative (a story) about a time when there was a power outage in your house. Explain like an electrical engineer what caused the power outage. Describe how you created energy in your house while you waited for the electrician to fix the power outage.**

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**Challenge activity:** On another piece of paper, draw a picture to illustrate your narrative. Include the source of your power outage in your illustration.