

Pebble
Maker



MAKE YOUR OWN LEMON BATTERY



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Words in **BOLD** are in the glossary.

BATTERY POWER

Batteries power the world. Flashlights need batteries. Batteries are used in cell phones and cars too.



How do batteries work? Fruit, a penny, and some wires can show you how. With simple supplies and a helpful adult, you can make your own battery.



WHAT YOU NEED

- 4 galvanized nails
- 4 lemons
- an adult helper
- knife
- 4 clean pennies
- 5 wires with **alligator** clips
on each end
- **LED** bulb





WHAT YOU DO

STEP 1

Carefully poke one nail into each lemon.
The nail should be placed near a pointed end of the lemon.



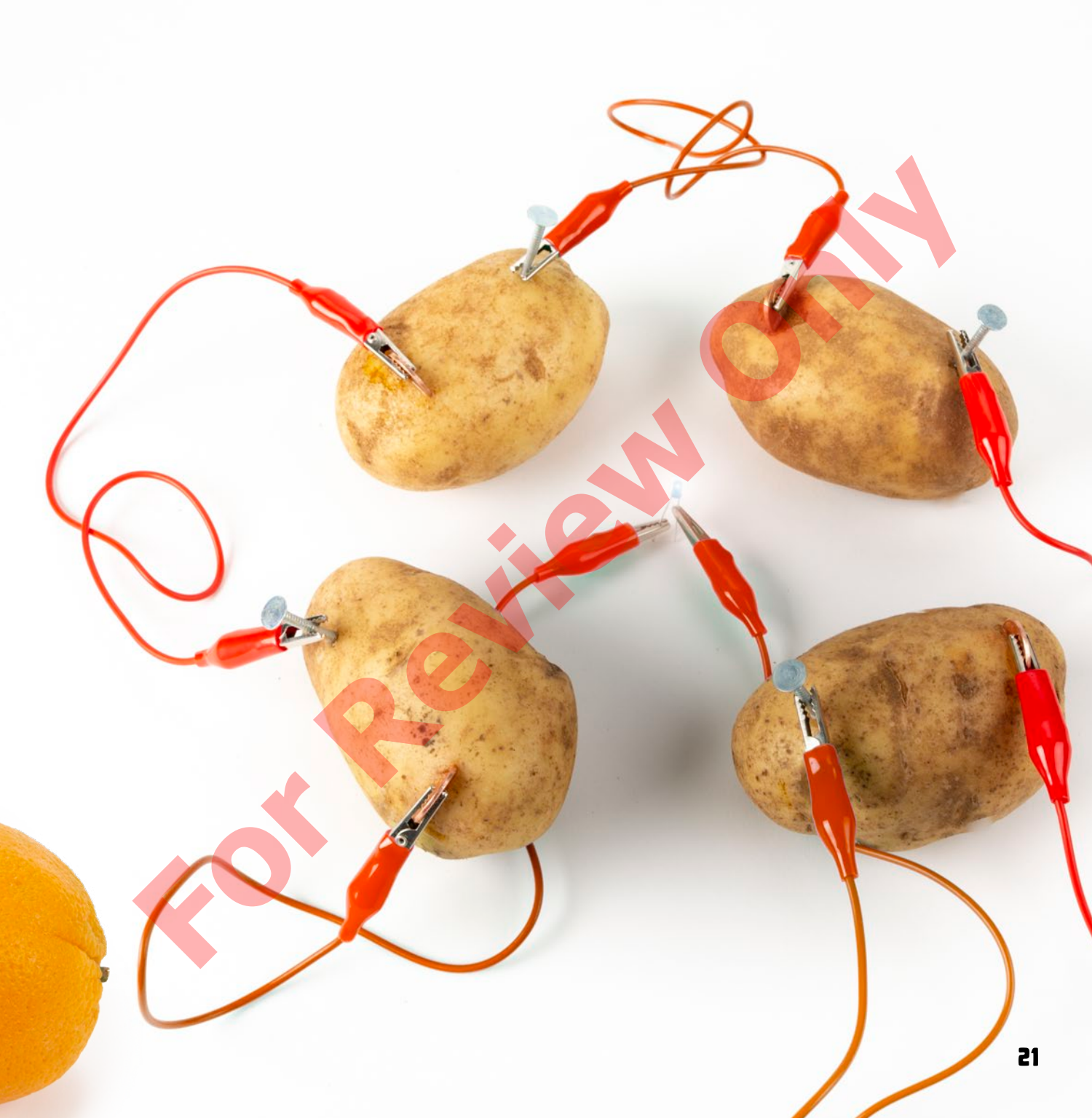
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TAKE IT FURTHER

Don't have any lemons? Any **citrus** fruit will work! Oranges, grapefruits, and limes are other options. Potatoes and onions will work as well. But they will be harder to cut.





BEHIND THE SCIENCE

Batteries turn chemical energy into electrical energy. Batteries have positive and negative ends. The copper in the penny is the positive end. The **zinc** in the nail is the negative end.

