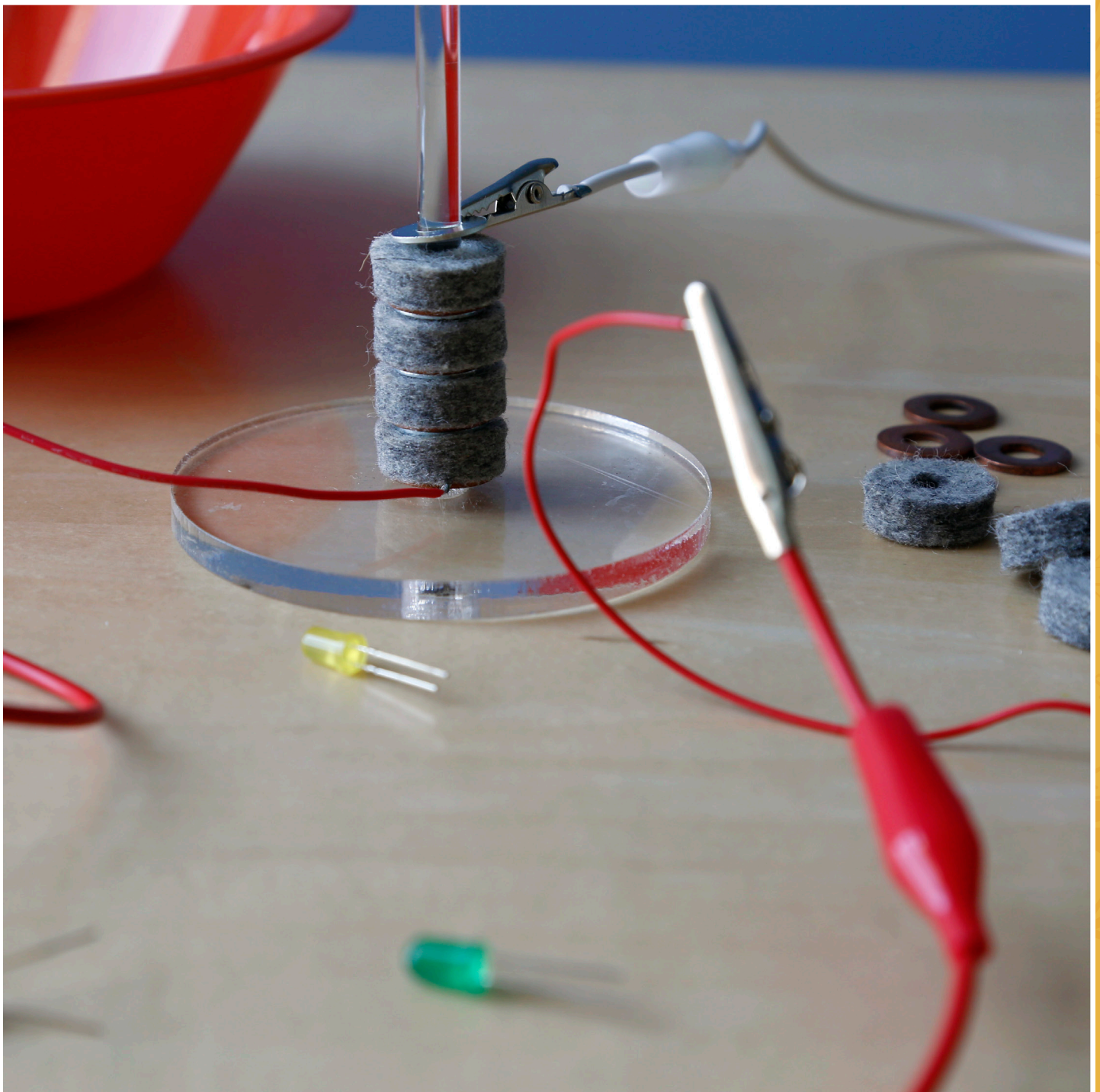
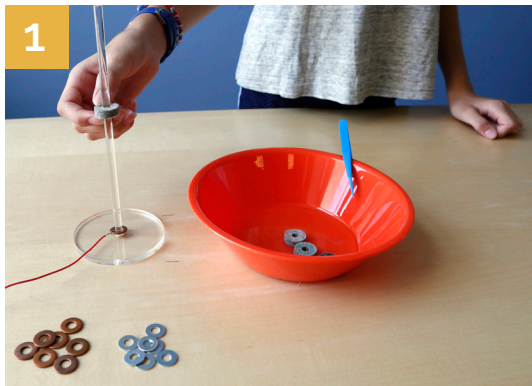


Battery Stack

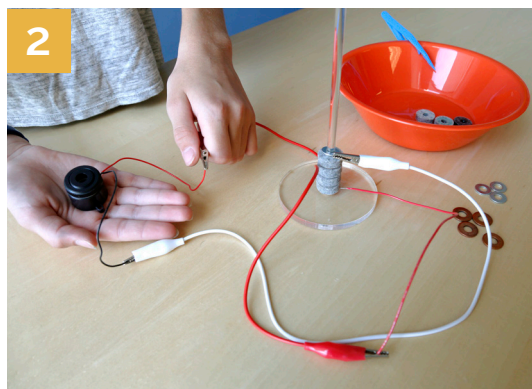


Battery Stack



Make a pile.

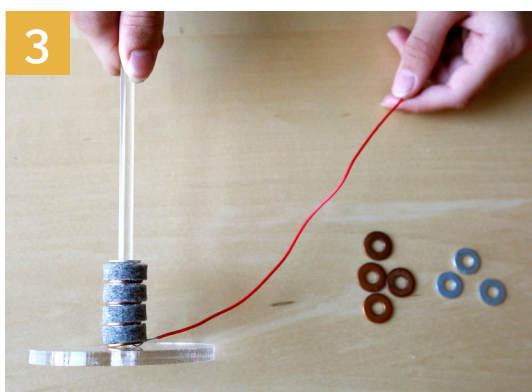
Find a copper washer that has a wire attached. Slide it onto the clear acrylic rod. Take a felt washer out of the bowl of vinegar and slide it onto the rod. Finally, slide a zinc washer onto the rod.



Test it.

Choose the buzzer or LED. Clip the red wire attached to the bottom washer to the buzzer's red wire (or to the LED's longer leg). Attach another clip to the buzzer's black wire (or to the LED's shorter leg), then touch the free end of the clip to the zinc washer at the top of the pile. What happens?

Tip: You'll probably need to add more washers to get the buzzer or bulb to work!

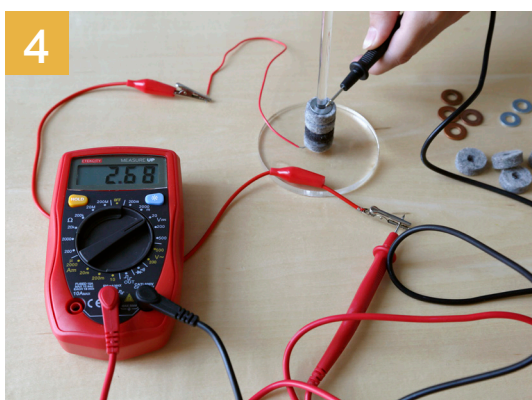


Add on to your pile!

Slide a copper washer onto the rod so it sits on top of the pile. Slide a felt washer onto the rod, and then a zinc washer. Now your pile is twice as big!

Does the bulb or buzzer work now?

Tip: To make the pile bigger, keep adding washers in the same order: first copper, then felt, then zinc.



Measure the volts.

You can also use the meter to test your pile. Attach the red wire of the meter to the wire on the bottom washer, and touch the meter's black wire to the top washer.

How many volts of electricity does your pile generate?