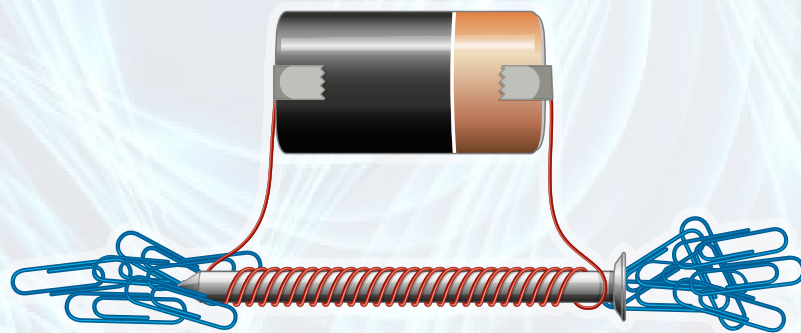


LITTLE BINS
LITTLE HANDS

STEM

DIY ELECTROMAGNET

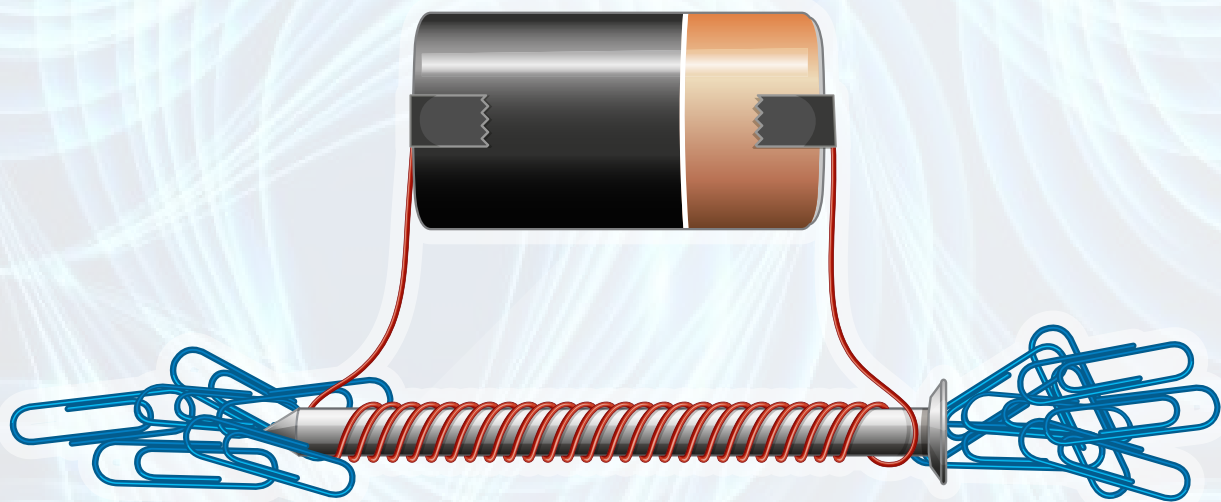


STEM

WHAT IS AN ELECTROMAGNET?

Imagine you have a special kind of magnet that only works when you send electricity through it.

That's an electromagnet! It's like magic - when you turn on the electricity, it becomes a magnet.



STEM

Let's learn about electromagnets!

You'll need:

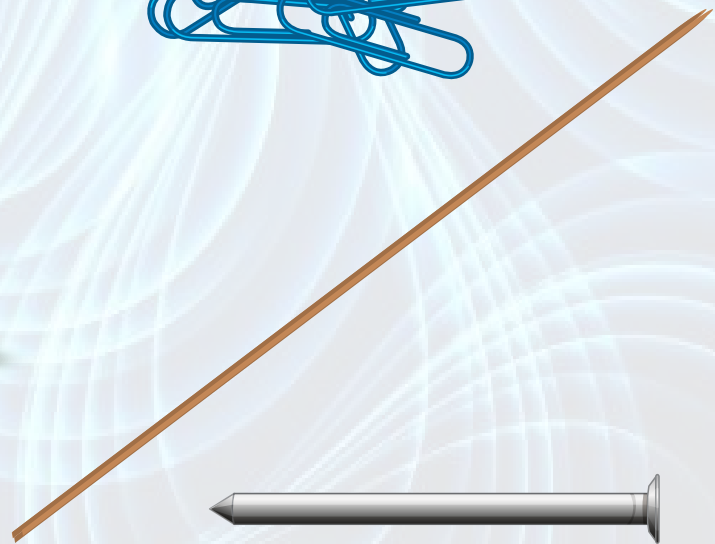
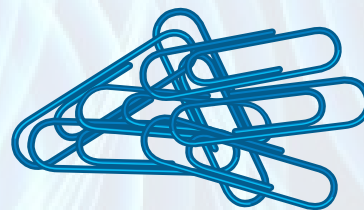
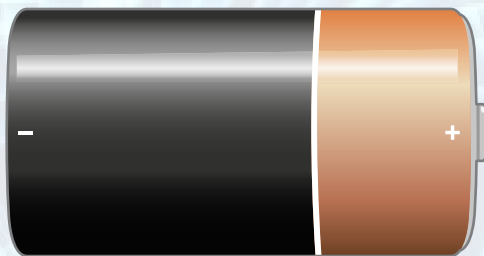
AA or C battery

Copper wire

Nail

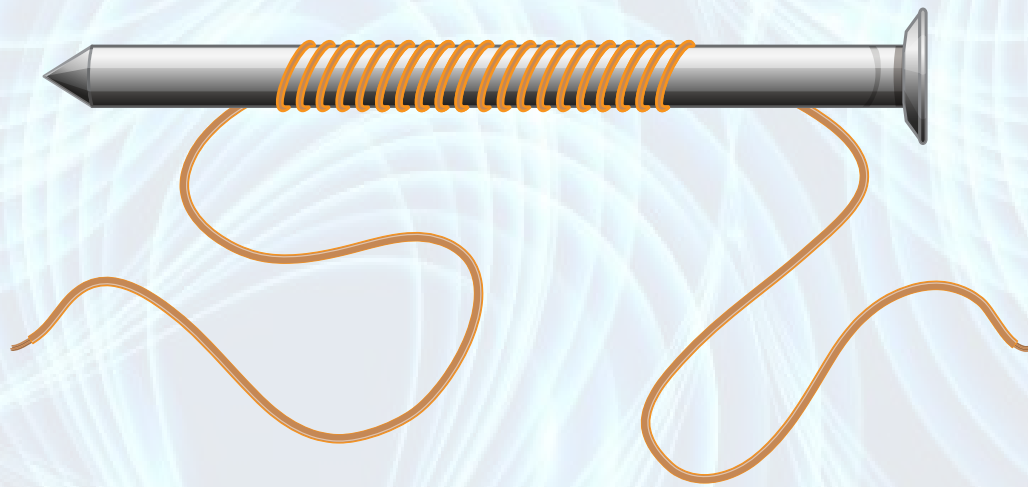
Electrical tape

Paper clips or other metal objects



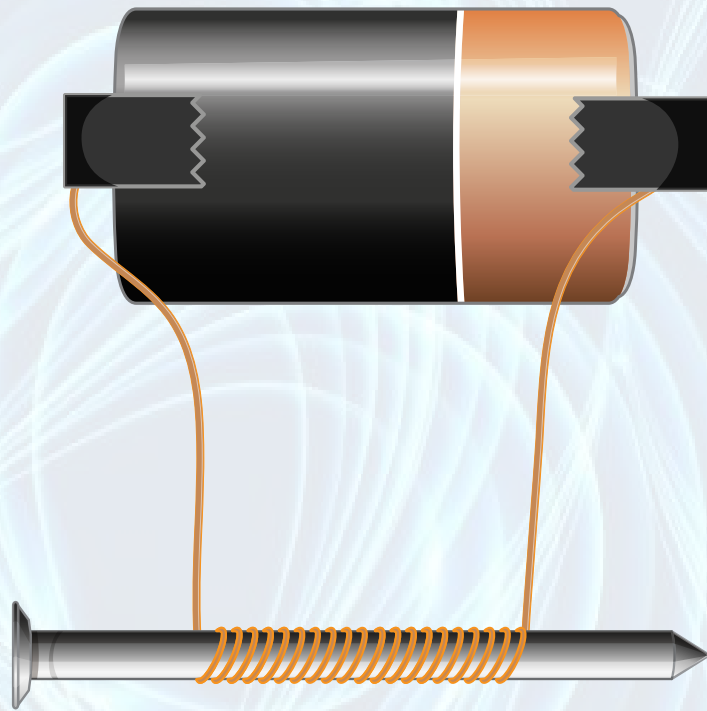
STEM

Wrap the nail with your copper wire, leaving an inch or so of wire on each side.



STEM

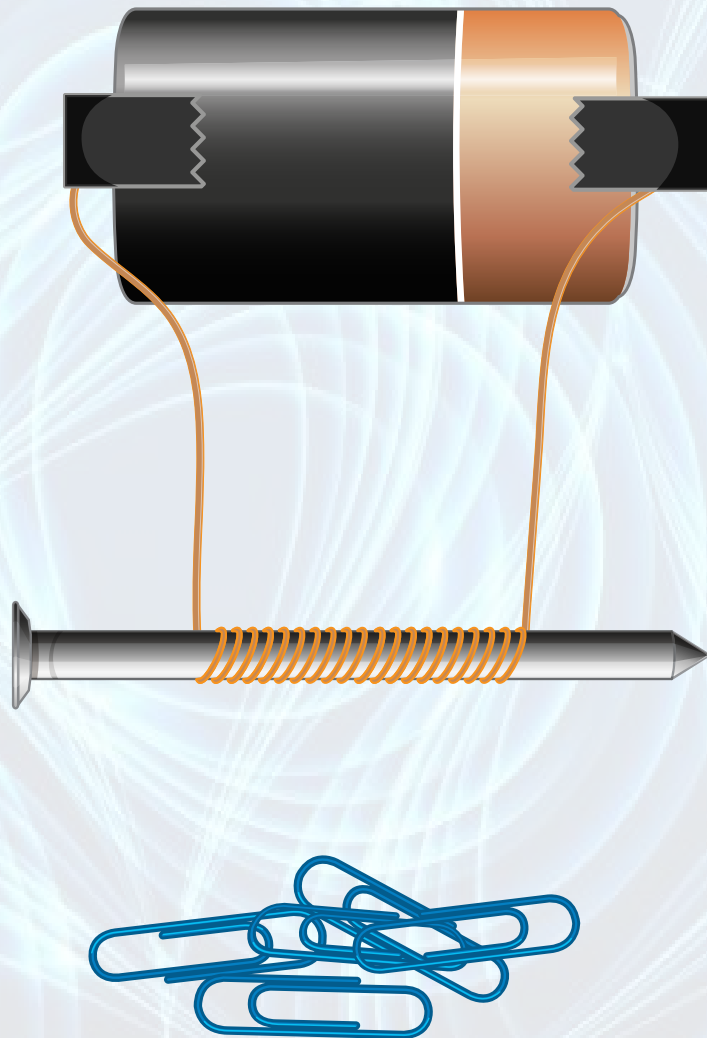
Using the electrical tape, attach the ends of the wire to the ends of the battery.



STEM

Now hold the nail over the paper clips.

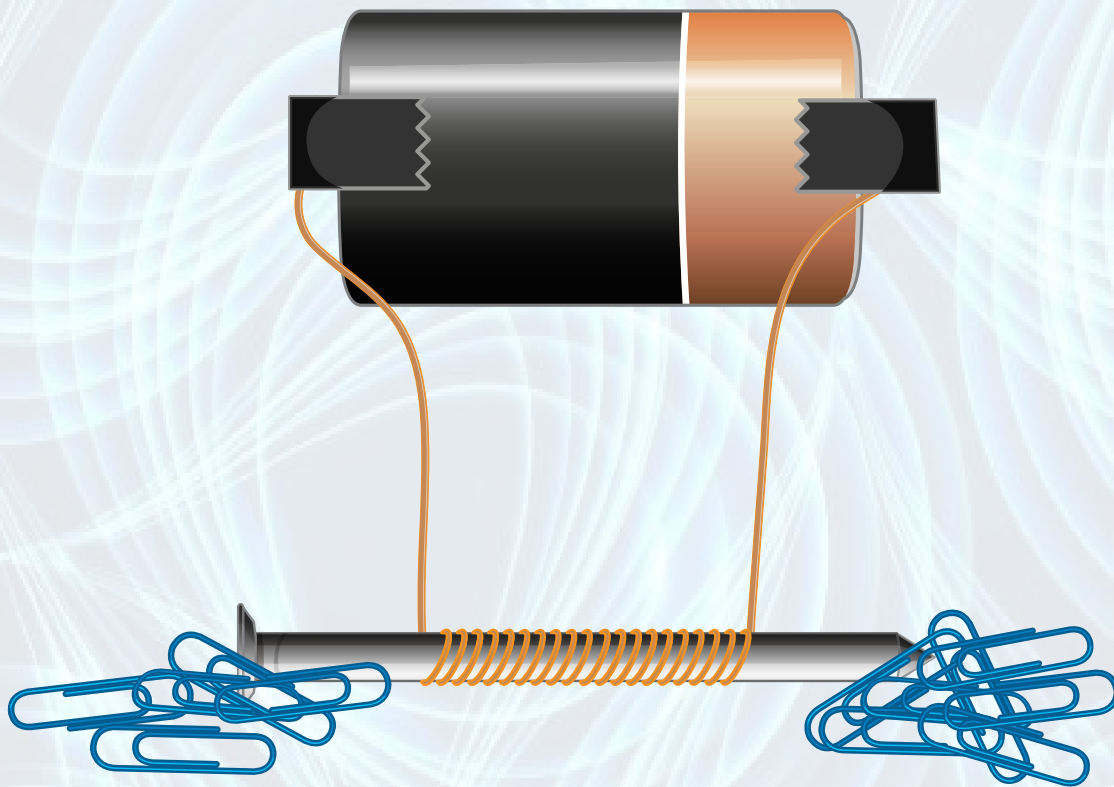
What happens?



STEM

What's happening?

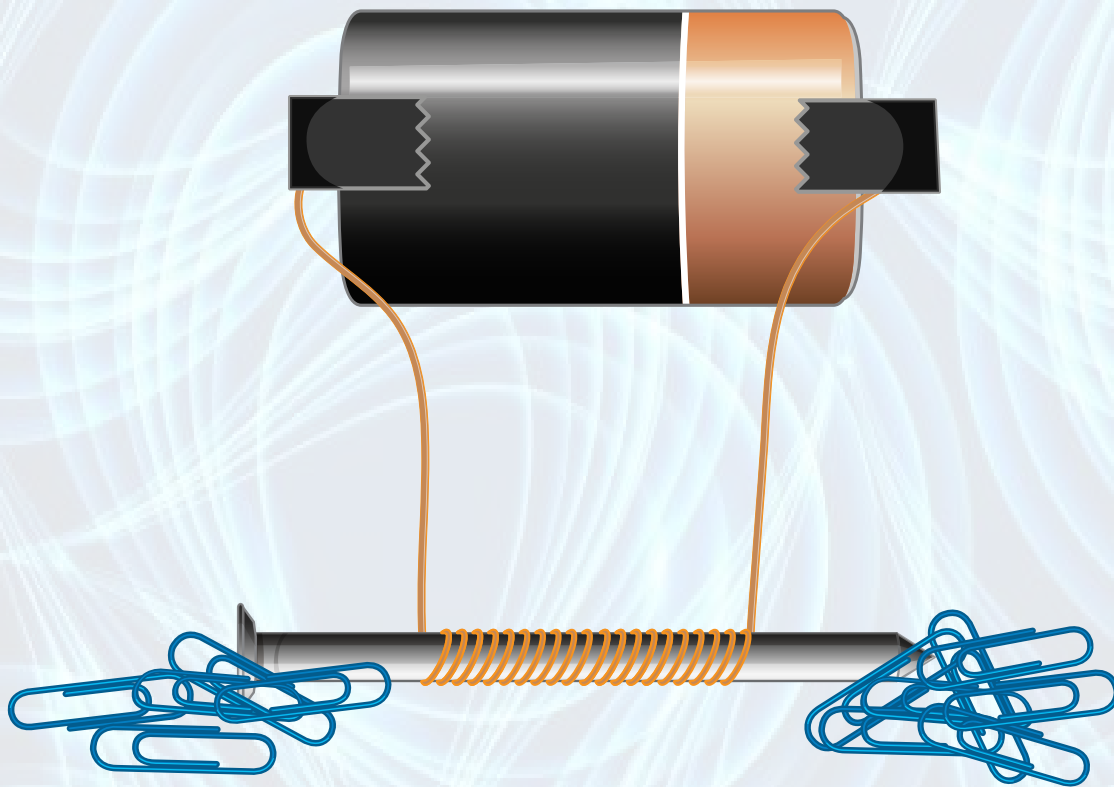
When you pass electricity through the wire, it creates a magnetic field, which makes the nail act like a magnet too!



STEM

So, instead of a regular magnet that's always on, you can control an electromagnet. Turn on the electricity, and it's a magnet. Turn it off, and it's not!

That's what makes electromagnets so cool





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MY SCIENTIFIC JOURNAL

3 MAKE A HYPOTHESIS:

SUPPLIES:

SET UP YOUR EXPERIMENT

4

RESEARCH NOTES:

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MY SCIENTIFIC JOURNAL

5 RECORD YOUR DATA:



YOUR CONCLUSIONS

6

