**EXPERIMENT:** How to make our own ELECTROMAGNET

*To perform this experiment, we need some APPARATUS such as*:

* copper wire
* a magnet
* some metal objects (safety pins, keys...etc.)
* an iron nail
* a size D battery

*PROCEDURE:*

1. The first step is to take a copper wire and very carefully wrap it around the nail in a spiral pattern.
2. It is better if we take adults help in wounding copper wire around the iron nail.
3. Finally, it should end up looking like a screw.
4. Leave some gap at 2 ends of nail so that we could test its magnetic nature at end of this process.
5. Now curl the either ends of wire to make sure that we get better contact with your battery.
6. Now very carefully line up the two finishes(ends) of the copper wire with the battery one on the positive end and one on the negative end.
7. Using a piece of thick cloth or something like towel to cover your hand.
8. Now slowly turn the battery onto its side to hold the wire set up.
9. Then hold the iron nail against the metal objects we will see that all of a sudden the iron nail has become a magnet this is because the electricity flowing through the copper wire has passed into the iron nail making it magnetic.
10. If we remove the contact ends of copper wire from the battery, we will see that the nail is still somewhat attractive yet nothing close as much as it was a minute back this is because the electricity is no longer flowing through the metal.
11. This is how we can make our very own electromagnet at home.