



Let's Make a 1 yen and 10 yen Battery!



Make a battery using coins (10yen and 1yen)



Point

Different kind of metal and saline solution that can transmit electricity



Materials



- 10yen (3coins)
- 1yen (3coins)
- Kitchen paper
- Cup
- Copper wire (connecting wire)
- Salt
- Water
- Electronic melody



※You can buy Electronic melody in electronic shop or you can remove it from melody card or melody telegram.

❁How to make the device for the experiment ❁

1 Cut the kitchen paper like a 10 yen size and shape.



2 Mix the water and salt in the cup until you cannot dissolve all the salt anymore. Make it saturated.

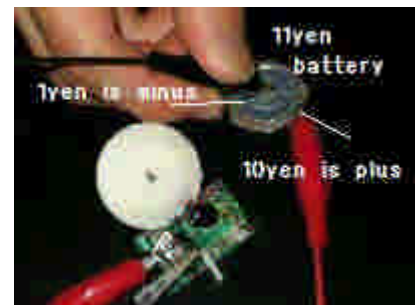


3 Soak the kitchen paper in saturated saline solution.



🌸Let's try🌸

1 Put kitchen paper between 10yen and 11yen.
That's called
『11yen battery』



2 Connect the copper wire to the terminals of Electronic melody and on the coin battery. The negative (minus) terminal of the battery is the 1 yen coin and the positive (plus) terminal is the 10 yen coin. Listen to the sound of electronic melody.



3 Make another two pieces of 11 yen battery. Put the 11yen battery on the other two 11yen batteries.



※Kitchen paper is not needed between 11yen battery.

4 Check the sound when 11yen battery put on other 11yen batteries.

* If you cannot hear the melody you should reverse the copper wire.

* If you hear no sound at all, or did not work in any way, check if you double the paper or the coins, paper is tear off or the copper wire is broken.

🌸Progress🌸

Let's make your original battery refer to experiment No.14 and No.,39.

→Photo in the right shows saline solution in the bucket and charcoal.



💡 Information

- 💠 Wash your hand and used 10yen and 1yen after the experiment.
- 💠 You can make various kinds of battery using the following:
 - With negative (minus) polarity – Zinc or Aluminum
 - With positive (plus) polarity – copper, stainless steel, brass, and carbon
 - Between two polar – liquid that can transmit electricity