



Let's Make the Bulb Using Pencil's Lead



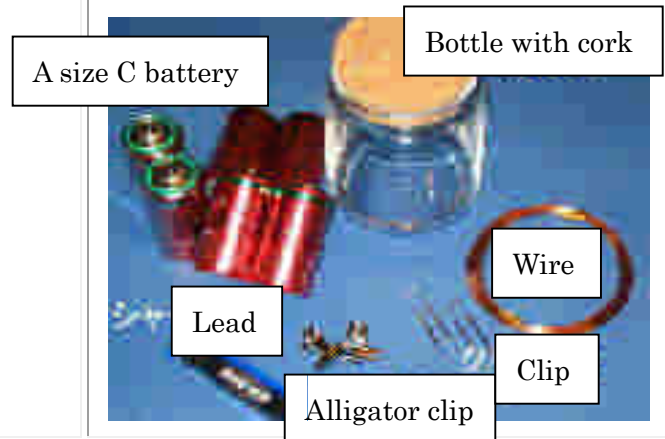
Light the lead of mechanical pencil

Point

High temperature

Materials

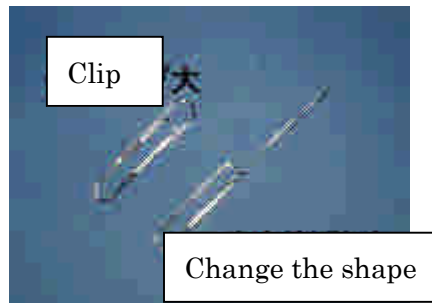
- lead of the mechanical pencil
- 2 clips (4cm)
- wire
- Alligator clip
- Bottle with cork (Diameter of 7cm)
- A battery (4)
- Plastic tape
- Adhesive



Make a equipment

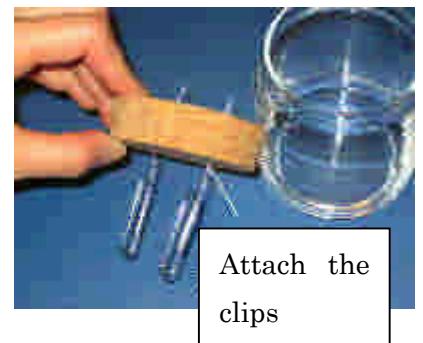
1

▪ Change the shape like in the picture.



2

▪ Put 2 clip to cork (Distance of 3~4cm)



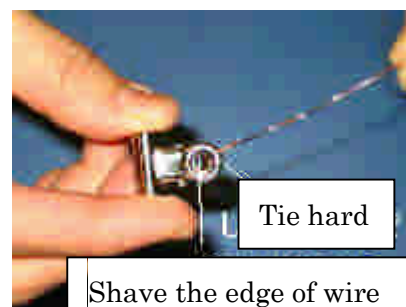
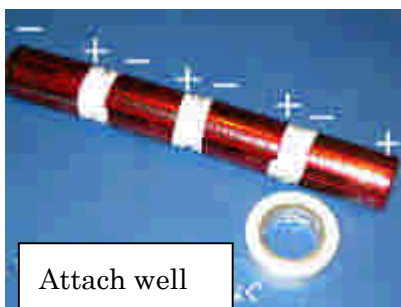
3 •Fix them with adhesive



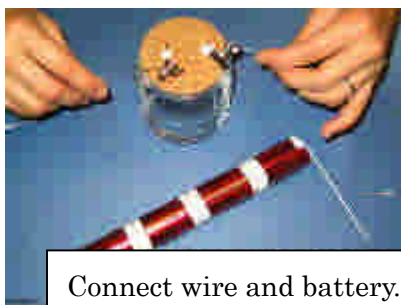
4 •Put the extra lead between clips

Experiment

1 •Connect 4 batteries together with plastic tape.



2 •Shave the edge of wire, put the alligator clip to one side of it, and repeat this process on the other side.



4 •Attach two alligator to the bottle's clip.

5 •Observe the lead.



1 : Red

2 : Yellow

3 : Orange



4: Bright



5: More bright



6: break the extra lead

🌸Progress🌸

Let's light extra lead long time.

• Because of the oxygen in the bottle, the lead burned, so it doesn't bright like a real electric bulb. It is important to reduce the oxygen to make it bright longer.

* The point is to shut the bottle tight.

💡 Information

💠 Use new batteries.

* If you use old batteries, it will take a long time to light.

💠 You can light extra lead without using the bottle.

* When you do this experiment, you have to ventilate a room.

💠 The light gets become very high temperature.

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