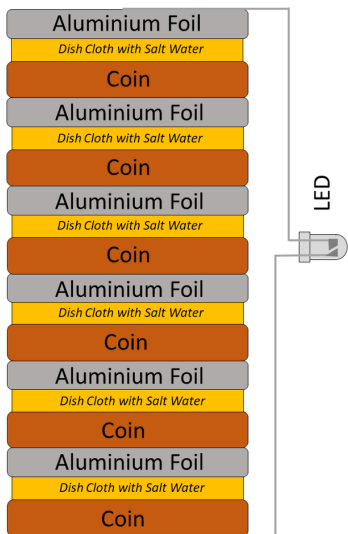


Current Chemistry Investigators

- **Electricity:** is a flow of electric charge, carried by charged ions and electrons
- **Cell:** a device capable of generating electrical energy from a chemical reaction.
- **Battery:** several cells connected that store chemical energy for conversion to electricity.

Al-Air Battery



The Aluminium foil will oxidise into ions, while the salt water moves the charge and the coin acts as a conductor for the oxygen that each cell needs.

Instructions:

1. Cut the aluminium foil and cloth-Use the coins as a template and cut inside of the line.
2. Prepare the salt solution – add 5 teaspoons of table salt to 500 mL of tap water, e.g. soft drink bottle.
3. Wet the cloth in the salt water so it is damp, not soaked.
4. Build each cell with a coin, then cloth, then foil.
5. Connect the LONG leg of the LED to the coin, and the SHORT leg to the foil.
6. Keep adding cells until the LED lights up, how many cells does it take?
7. It might take over 10 cells, use a dark place to make sure you can see the LED lighting.