

# The Potato Powered Clock Work Sheet

Here's how to make electricity from a potato! This experiment is safe, but electricity can be dangerous. Never play with electricity!

You will need:

Copper coin or copper wire (+)

2 Potatoes (Electrolytes)

Aluminium foil. (-)

Two copper electrodes. A 10-cm length of thick (0.64 cm) copper ground wire works well.

Two large galvanized nails.

Three alligator-clip wires.

Top Tip - For best results use 3-4 cells in series to get enough voltage to run LCD clock.

## How to Make a Potato Clock

First, open the battery compartment of the clock and remove the little battery. In the compartment, notice that there are two connections for the battery marked plus (+) and minus (-). Connect the potato battery to these two places. Let's call the potatoes A and B. Connect A and B to the clock like this:

1. Insert a copper electrode and a zinc electrode into each potato, fairly far apart.
2. Use an alligator-clip wire to connect the copper electrode of potato A to the plus (+) connection in the clock.
3. Use an alligator-clip wire to connect the zinc electrode of potato B to the negative (-) connection in the clock.
4. Use an alligator-clip wire to connect the zinc electrode of potato A to the copper electrode of potato B.

That's it, if all went well, the clock is running and will run for a long time.