

POTATO BATTERY ?!

1 You will need

- 2 Potatoes (can be done with more if you want more power)
- 2 pennies
- 2 zinc-plated nails/screws (most screws are already zinc plated)
- 3 pieces of copper wire
- a small LED lightbulb or a voltmeter



2 What You Need To Do

Strip Copper Wiring to Fit Penny



You need to make sure that you are stripping enough wire to wrap securely around the penny.

3 Cut a Slit Into Each Potato



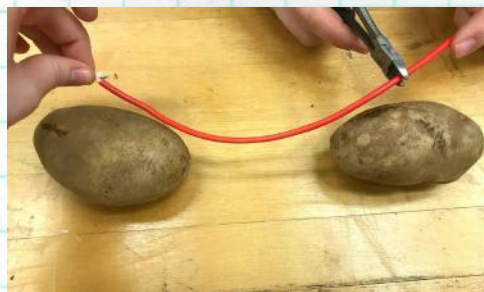
Each slit should be able to fit a penny, but it doesn't need to be exact because it can always be adjusted later!

4 Wrap Penny With Wire and Put It in the Potato



The wire-wrapped-penny should fit snugly into the slit you made earlier. This may take some adjusting and a little force to get the penny in right.

5 Cut the Other End of the Copper Wire

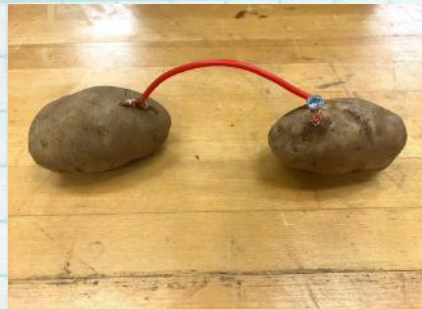


6 Insert the Zinc-plated Screw Into the Potato



Connect the two potatoes together with the wire going from the penny to the screw.

7 Wrap the Other End of the Copper Wire Around the Screw



8

Repeat Steps 2 - 4
Cut a new slit for a penny into the second potato that already has a screw and fit the new wire wrapped penny into that potato.

Tip: we cut all our wires to be around the same length overall to make things easier later on.

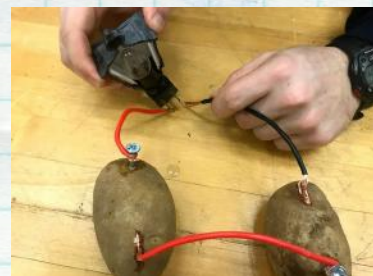
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Repeat Steps 6 - 7
Insert a screw to the potato that only has a penny, and attach a new wire to the screw.

10 Review Connections



11 Test Your Battery!



EXPERIMENT!!!!

Try the following items: lime, lemon, & tomatoes
Can you power...? a mobile phone, a torch, a hair dryer...

Adult supervision required

