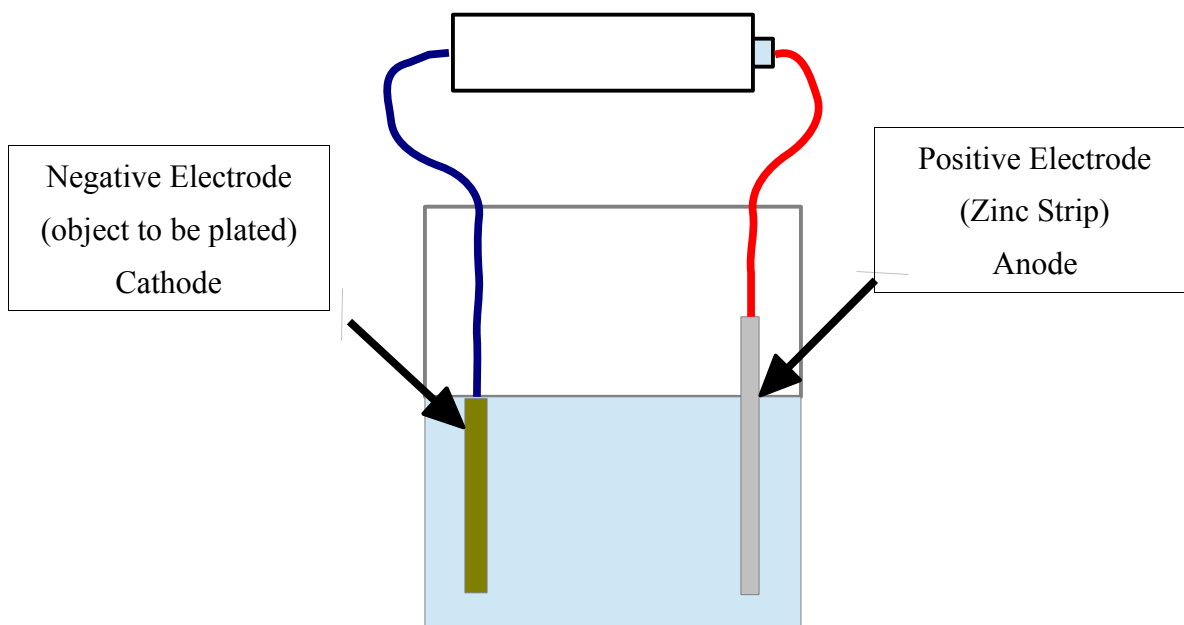


# Electroplating Zinc



## Materials:

Pennies 1980 or older  
Wire with Clips  
Battery Holders  
Zinc Strip

NaCl  
Beakers  
Battery  
Vinegar

## Method:

- 1) Mix 5g of NaCl into 50ml of Vinegar
- 2) Clean a strip of Zinc with Steel Wool
- 3) Place the strip of Zinc into the beaker and add about 5cm of vinegar
- 4) Allow to sit for for 15 to 30 minutes.
- 5) Completely clean a penny with steel wool.
- 6) Obtain a second beaker
- 7) Remove the zinc from the vinegar solution
- 8) Connect the negative terminal of the battery to a penny.
- 9) Connect the positive terminal of the battery to the zinc strip.
- 10) Place the zinc and the penny into the new beaker. Carefully balance or attach them so that they stand up on the bottom of the beaker.
- 11) Slowly add the vinegar solution to the zinc and penny beaker until the solution nears the terminals. **Do not cover the terminal clips since they will become part of and contaminate the reaction.**
- 12) Watch.....you may need to clean the zinc if it blackens.