Nifty Nail

Dig out that pile of pennies you've been saving and make yourself a copper-plated nail.

**What to do:** Squeeze the lemon juice into the glass. Put the pennies into the glass a few at a time. The lemon juice should cover them. Add a pinch of salt. Let the pennies stand for 3 minutes.
Meanwhile, clean the nail with scouring powder and water. Put the nail into the glass. Wait at least 15 minutes, then fish out the nail.

**What happens:** The nail is coated with copper.

**Why:** Copper from the pennies interacts with the acid of the lemon juice to form a new compound (copper citrate). When you put the nail into the solution, the compound plates the nail with a thin layer of copper that cannot be rubbed off.
After you've got your copper nail, you might want to wear it on a string.

**YOU NEED**
- two lemons
- small glass
- 10 to 20 dull copper pennies
- salt
- large, clean nail