

The Stillness Infants Holiday Science Experiment

What is the best way to
clean a dirty coin?

Send in any photos and videos of
you being a super scientist! We'd
love to see them!

What you will need:

$\frac{1}{4}$ cup of vinegar
$\frac{1}{4}$ cup of apple juice
$\frac{1}{4}$ cup of vinegar + salt
$\frac{1}{4}$ cup of Coca Cola
$\frac{1}{4}$ cup of water
$\frac{1}{4}$ cup of ketchup
6 dirty copper coins
Pen and strips of paper (for labels)
Fork (for scooping out coins)
Paper towels (to clean off the coins)



How to:

1. Get your 6 cups. One with some vinegar, one with apple juice, one with vinegar and salt, one with Coca Cola, one with water and one with ketchup.
2. Write out labels to say what is in each cup so you don't forget.
3. Take a look at your 6 coins. *Ask your child; How would you describe this coin?
4. Place one coin in each of the 6 liquids. Make sure your coin is covered.
5. Wait 15 - 20 mins. * During this time, you could ask your child; What do you think will happen to the coin? Which liquid do you think will clean the coin the most? Why?
6. After that 15 - 20 mins, scoop out your coins and place onto a paper towel (Keep the labels close so you don't forget which came from where)
7. Rinse off any coins that need to be rinsed.
8. Take a look at our coins. *What has happened to them? How would you describe each coin? Which coin was cleaned the most? Which was cleaned the least?



The science behind the clean!

What happened? This is very similar to the bouncing egg and how acid got rid of the shell. This time the different types of acid in the vinegar, salt, ketchup and Coca Cola dissolved (got rid of) the dirt. *This gentle acid in our food and drink is one of the reasons we need to brush our teeth.