

NAME: _____

Lab Report: Etch This!



CHIP KIDS

Complete the lab report as you conduct the experiment!

PURPOSE:

HYPOTHESIS:

OBSERVATIONS AND RESULTS:

CONCLUSION:

NAME:

NOTES:

VOCABULARY:

- Etching: the process of using a chemical to remove material from a surface.
- Masking: when certain areas are covered with material to resist the etching, so only the unmasked areas will be etched.

NAME:

MATERIALS:

- Antacid tablet (e.g. TUMS)
- Clear tape
- Small cup
- Vinegar
- Spoon
- Timer
- Plate

PROCEDURE:

1. Take two pieces of clear tape, and wrap them around the top, sides, and bottom of the tablet, leaving a small gap (2mm) between them.
2. Look closely at the taped tablet. What material do you think will be etched away when the tablet is submerged in vinegar?
3. Place the taped tablet in a small cup, then pour vinegar into the cup until the tablet is fully submerged.
4. Set a timer for 5 minutes and watch the gas formation during the reaction.
5. After 5 minutes, remove the tablet with a spoon and place it on a plate.
6. Observe what parts of the tablet got etched; be sure to look at the top, sides, and bottom of the tablet. Does it match your prediction? Why or why not?