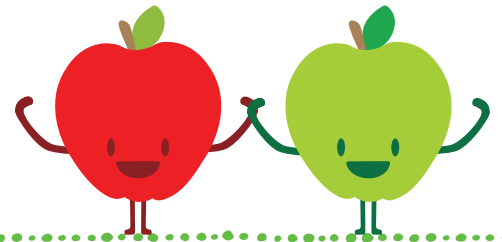




## CHEF SCIENCE: APPLE VOLCANO

Got a bad apple? (bruises, holes, etc.) Don't throw it just yet!  
Have fun using it to try this apple volcano experiment.



### WHAT YOU NEED:

- apple
- vinegar
- baking soda
- dish soap (optional)
- food coloring (optional)



Be sure to ask an adult for help and permission before trying out this activity!



*Adults:* Core out the middle of the apple, but do not cut all the way through. Leave a layer of apple at the bottom so it is like a cup.



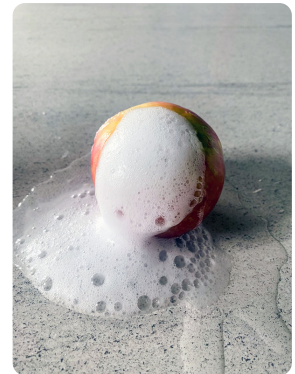
*Kids:* Scoop a spoonful of baking soda into the apple.

*Adding a drop of dish soap will make a foamier volcano!*



*Kids:* Pour vinegar into the apple from a cup or container that is easy to hold.

*Adding a few drops of food coloring before the vinegar will make colored eruptions!*



*Everyone:* Watch the volcano erupt!

What happens if you use a different type of apple? Is the reaction the same or different?

What's happening in this experiment? When an acid (vinegar) is mixed with a base solid (baking soda), a gas called carbon dioxide is formed and makes the eruption you can see (bubbles!). Listen closely during the eruption, can you hear the bubbles?