



Year 7-8

Leaping Canisters

Materials

Water
Film Canister (with a lid)
Teaspoon
Tartaric acid
Baking soda



Instructions

Teacher—mix up a batch of equal parts baking soda and tartaric acid together before hand.

Conduct this experiment outside—the tennis court is an ideal location

1. Get the tartaric acid and baking soda mixture from the teacher
Place this mixture in the groove of the lid of the film canister
2. Pour cold water into your film canister until it is 1/2 full
3. Quickly place the lid on your film canister, hold it tightly with your thumb and place the canister (lid-down) on the line of the court.
4. Observe what happens
5. Measure the distance your canister travelled from the line on the court
6. Repeat the experiment using different amounts of water—KEEP ALL OTHER VARIABLES THE SAME!
7. Record your observations in your results table

Why did that happen?

When the water was added, it allowed the tartaric acid and baking soda particles to collide and react. This led to a gas being produced. Once the gas filled the container, the lid popped off the canister so that the gas could escape. This is an example of a CHEMICAL REACTION.