

What a Gas!



10 minutes

What You Will Do

Display how fire can be extinguished by carbon dioxide gas.

Get it Together

- ◆ Pie pan
- ◆ Small candle
- ◆ Clay or candle holder
- ◆ Drinking glass
- ◆ $\frac{1}{4}$ cup vinegar
- ◆ $\frac{1}{4}$ cup water
- ◆ 1 Tbsp. baking soda
- ◆ Spoon
- ◆ Matches

Procedure

1. Secure the candle in a holder or some clay and place it in the center of the pie pan.
2. Place the baking soda in the glass and add the water.
3. Light the candle.
4. Add the vinegar and stir with the spoon.
5. As soon as the mixture stops foaming, tip the glass as if you were pouring something out of it onto the flame. Do not pour any liquid on the candle.
6. Observe what happens to the flame.

Attention!

Use caution when working with matches.



What Now?

Try other powders, such as flour or sugar and see if you get the same results.