

Whitney Water Center Learning from Home

Episode 18: Cloud in a Bottle

Introduction

Clouds float by in the sky, but it is possible to create a cloud inside as well. With a few simple materials, a cloud can be made inside a plastic bottle. When the bottle is squeezed, it increases the pressure inside the bottle and increases the temperature of the water. When the bottle is released, the pressure drops along with the temperature of the water. As the water cools, it condenses around the smoke particles and creates a fog-like cloud.

Experiment 1: Make your own cloud.

Materials

- Hot water
- Clear, two-liter soda bottle with the cap and the label removed
- Matches

Link to video

Facebook: <https://www.facebook.com/scctrwa/videos/561149884546145/>

YouTube: <https://www.youtube.com/watch?v=3dPog4QXUo4&feature=youtu.be>