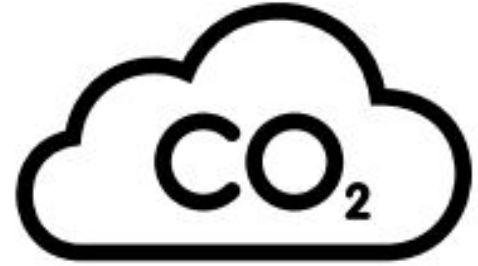


Cave of Dogs?

Collaboration - Step up to a CO₂ challenge with your partner!



Grades: 5-8

Time: 20-30 minutes

Subject: Chemistry

Overview

Grab a partner and prepare to demonstrate your knowledge of CO₂ and gas behaviors to create controlled patterns of data displays. Good luck!

Background

Carbon dioxide is all around us. It's in the air we breathe, substances that react with one another, volcanic fumes, auto emissions, and even in the breath we exhale. In short, it's all over the place! Now that you know how to read CO₂ data and you understand some of its characteristics it's time to take on the ultimate challenge. Using all your scientific knowledge join with a partner and demonstrate your ultimate control over CO₂ levels. Good luck

Objectives

Understand & Recognize:

- Gases have **weight**, and different gases are heavier or lighter than others.
- CO₂ is:
 - an invisible and odorless gas
 - deadly to animals in concentrated amounts
 - heavier than air
 - varying in levels in the air around us depending on many factors

What You'll Need

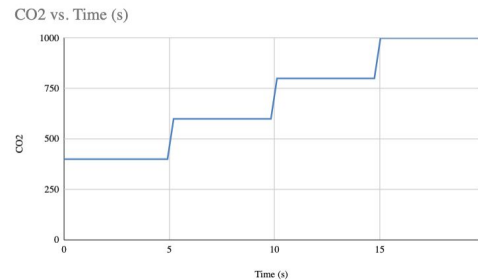
- IOS or Android smart device with Bluetooth Low Energy (BLE) to connect to databot™
- databot™ + Phyphox App installed on your IOS or Android smart device.
- A source of CO₂
- Your knowledge of CO₂ and its behavior.
- Your imagination!!

Prep (5 mins)

- Complete the PDQs and Experiment to clearly understand the dynamics of CO₂
- Successful completion of the Challenge activity helps prepare you for this one!

Collaboration (25mins)

Complete the PDQs and Experiment to clearly understand the dynamics of CO₂. Successful completion of the Challenge activity helps prepare you for this one!



Awesome! This concludes your Cave of Dogs adventure.

Ready for another? Let's go!

[Educator Resources](#)

References:

Wikimedia Commons

<https://commons.wikimedia.org/wiki/File:Gnome-mime-sound-openclipart.svg>

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