Name: Date:

CO_2 in enclosed spaces

Objective:
In this experiment, we're measuring how our breath increases CO_2 levels in an enclosed space. We'll also learn the importance of ventilation.
Group members:
Location of experiment:

Prediction
Before you start, make some predictions.
1. What do you think will happen to the CO_2 levels as time passes? I predict CO_2 levels will *Increase steadily / spike quickly / stay the same* (circle one)
Why do you think this will happen?

_____

Experiment setup
Dependent variable (what are we measuring?) _____

Independent variable (what are we changing?) _____

Controlled variables (everything else that we'll keep the same?) _____

_____

Data Collection
Use the table below to record your CO_2 levels over time.

Time (minutes)	**CO2 level (ppm)**	**Observations (e.g., temperature, feeling of stuffiness, etc.)**
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

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Results

1. What happened to the CO_2 levels over time?

_____

2. Did the room feel different after a few minutes? Describe any changes.

_____

3. Was your prediction correct? Why or why not?

_____

Discussion questions

1. Why do you think the CO_2 levels increased in the room?

_____

2. What could happen to the air quality in a car with multiple passengers and no ventilation?

_____

3. What strategies can we use to reduce CO_2 levels in enclosed spaces?

_____

Extension Activity:

Change 1 variable to change the experiment. For example, how does the number of people in the room affect CO_2 levels? How does the activity level of people affect CO_2 levels? How does the amount of ventilation affect CO_2 levels?

_____

_____

_____