

Group 4 Project

The effect of Co₂ on growing plants

12/09/07

By: Alex Fostar, Adi Ron

Explanation Of Experiment

- n To grow four equal amounts of cress seeds
- n 2 in normal environments of CO_2 (.035%)
- n 2 in irregular environments of CO_2 (.060%) apx
- n 50 seeds for each petri dish
- n Overall Goal: To observe and record the two different types of environments, and to record which of the two shows the most growth.

Planning

- n Dependant- *size/mass of the grown seeds*
- n Independent- *Co₂ concentration*
- n Controlled- *sunlight conditions, type of plant, amount of water, number of seeds, etc.*

Results Thus Far...

Table: Average length of sprouts in millimetres over time

	Day 1		Day 2		Day 3	
	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
Control	0	0	0	0	10	10
High CO ₂	0	0	3	5	5	5



No growth



Some growth

Sources of Error, Interpretation of results

- n Plastic bag was not completely clear.
- n Inaccurate timing
- n Incorrect measurements
- n The CO₂ rich environment got a headstart, but soon the control caught up. Why?
- n Yeast creating a bad growth environment
- n Inconsistency of water temperature and spread
- n Light diffusion caused by the plastic bag lowering temperatures in rich env.