

Nickita Alexeyev
Is CO2 Making Earth Greener?

Carbon dioxide does not always have disadvantages, has benefits for most plants! This project tested which atmospheric gas grows a plant best: carbon dioxide or oxygen. The hypothesis states that carbon dioxide grows a plant best because a plant goes through the photosynthesis cycle by taking in carbon dioxide and light through its leaves along with water from the roots to make sugars and oxygen. The first step was to put three ivy plants and three wheatgrass plants into separate bottles and then surround each plant with oxygen or carbon dioxide, then left to grow for six days. The results concluded that the carbon dioxide filled ivy plant showed growth of 1.45 inches and the oxygen filled ivy plant only showed growth of 1.40 inches. The wheatgrass plant showed different results. The oxygen filled plant grew the best with a growth height of 7.05 inches while the plant filled with carbon dioxide only grew 0.05 inches. This project supported that a carbon dioxide atmosphere grows a plant better than an oxygen atmosphere. The plants in the bottle of carbon dioxide showed growth heights significantly higher, than the plants grown in normal air. There was little change in the wheatgrass for any atmosphere. Through this project the hype around how terrible carbon dioxide is to the atmosphere is not so bad if there were more plants to process the carbon dioxide.