



| Name(s) | Project Number | |
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| Lauryn A. Decker | S0610 | |
| Project Title | | |
| Capturing CO2 | | |
| Abstract | | |
| Objectives/Goals To determine if the concentration of a calcium hydroxide solution (limewat dioxide it can capture. Methods/Materials Limewater with different concentrations (0%, 25%, 50%, 75%, 100%) were initial pH level was recorded. Then, carbon dioxide was bubbled through t limewater solutions (calcium hydroxide) and the final pH level of each was were converted to the concentration of the calcium hydroxide. Then, the di and final concentrations was calculated and converted to the grams of carbot trial of each concentration. Results 0% limewater averaged about 4.15 x 10^-8 grams while 50% limewater averaged about 4.15 x 10^-8 grams while 50% limewater averaged about 4.15 x 10^-8 grams while 50% limewater averaged about 4.15 x 10^-8 grams while 50% limewater averaged about 4.15 x 10^-8 grams while 50% limewater averaged about 4.15 x 10^-8 grams while 50% limewater averaged about 4.15 x 10^-8 grams while 50% limewater averaged about 4.15 x 10^-8 grams while 50% limewater averaged about 4.15 x 10^-8 grams while 50% limewater averaged about 4.15 x 10^-8 grams while 50% limewater averaged about 4.15 x 10^-8 grams while 50% limewater averaged about 4.15 x 10^-8 grams while 50% limewater averaged about 4.15 x 10^-8 grams while 50% limewater averaged about 4.15 x 10^-8 grams while 50% limewater averaged about 4.15 x 10^-18 grams while 50% limewater averaged about 4.15 x 10^-18 grams while 50% limewater averaged about 4.15 x 10^-18 grams while 50% limewater averaged about 4.15 x 10^-18 grams while 50% limewater averaged about 4.15 x 10^-18 grams while 50% limewater averaged about 4.15 x 10^-18 grams while 50% limewater averaged about 4.15 x 10^-18 grams while 50% limewater averaged about 4.15 x 10^-18 grams while 50% limewater averaged about 4.15 x 10^-18 grams while 50% limewater word io^-19 grams of carbon dioxide. These results support the hypothesis that 100% concentrated limewater word dioxide. This project shows that there are many different way | e placed in beakers and their he different concentrated s taken. Then the pH levels ifference between the initial on dioxide captured for each eraged about 8.91 x 10 ⁻² dioxide averaging about 3.30 x ations of calcium hydroxide uld capture the most carbon carbon dioxide. Therefore, this pture it more efficiently. For | |
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| Summary Statement | a offe etc. h erre are state and a sub- | |
| This project determines if the concentration of a calcium hydroxide solution dioxide it can capture. | n attects how much carbon | |
| Help Received | | |

My chemistry teacher, Mrs. Reed, taught me about the calculations/procedure and provided me with the materials I needed.