

Sarah Laden
Cool Beans!

The purpose of this project was to determine which Mung Bean Sprout would germinate the fastest after being stored in a -21°C , 1°C and a $20\text{-}25^{\circ}\text{C}$ area (room temperature-control) for 20 and 40 days. I hypothesized that if the temperature at which the Mung Bean Sprouts are kept decreased and the time the seeds are stored there increased, then the number of days for the seed to germinate would increase. This experiment involved preparing 36 Mung Bean Sprouts for the experiment by first putting 18 seeds in 3 plastic bags to go in 3 different temperatures: -21°C , 1°C , and $20\text{-}25^{\circ}\text{C}$ (room temperature) for 40 days. I then repeated this for another 18 seeds 20 days before the experiment. I then planted the seeds into separate cups. There were six seeds for each temperature and for the length of days in that temperature. I recorded how many days it took for the seeds to germinate. The data collected did not support the hypothesis. Only trial 3, room temperature, 20-day seed took longer (7 days) to germinate. All the other seeds germinated in 5 days. These findings lead me to believe that cold does not have an effect on the germination time of the seeds tested.