

CALIFORNIA STATE SCIENCE FAIR 2016 PROJECT SUMMARY

| Name(s) | Project Number |
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| Zainab Husain | J0618 |
| Project Title | <u> </u> |
| How to Grow Homemade Stalactites | |
| Objectives/Goals Abstract | |
| The objective of this project is to determine the growth of stalactites under varie Methods/Materials | ous temperatures. |
| Water, Epsom salt (about ten pounds), pieces of rope (thirty centimeters each), lamp, ten trays, a spoon, a fridge, and ten clips were used. An infrared thermore millimeters were also used to make my measurements. | |
| Fill water up to the top of the glasses. Add Epsom salt to the water until it does More salt can be dissolved in a hot solution so it is best to dissolve the salt in a to dissolve the salt a little bit at a time so that the salt dissolves faster. Bend the an #m#. It is optional to put paperclips at the end of each glass to secure the rop into the two solutions. Put the glasses on the tray to catch the dripping water. Pu on a tray in the following locations: In the fridge, garage, in the warmth of a he and in room temperature. The water will climb up the rope and it will drip. Wat with Epsom salt should also be added to all of the cups. (Make sure to add the s Epsom salt to the cups). In three days your stalactite will have eventually grown you can carefully disconnect your stalactite from the end of the rope. Conclusions/Discussion | pot on the stove. It is best rope so that it looks like be. Dip the ends of the rope ut two of the glasses each at lamp, on the balcony, ter that has been saturated same amount of water and n many centimeters. Now |
| For my experiment, my hypothesis was that the room temperature stalactite wo was right because I knew stalactites grew in warmer temperatures rather than co | |

Moderate (room) temperature inside the house proved to be most suitable for consistent growth of stalactites.

Cold out door temperatures slowed down the flow of water on the ropes and therefore the Stalactites grew slowly. The heat lamp increased the temperature too much and caused some of the water to evaporate instead of traveling across the rope.

Summary Statement

My project is about the growth of stalactites under various temperatures.

Help Received

I researched how Stalactites are formed over time and set up the experiment. Dad supervised to make sure I was safe while heating up water to make the salt solution. Mom helped shop for the materials.