Joel Knepper  
Junior Division Plant Sciences  
*A Plant's Favorite Color*

This project was designed to determine if pinto bean plants are placed in a yellow, green, white, black, red, blue, or controlled colored environment, which color would make the plants grow to be the tallest. Three boxes were divided into two equal parts and cardboard dividers were placed down the middle of the boxes and glued in. The inside halves of the boxes were painted the six different colors. Three holes were pierced in the bottom of 21, 453.592g (473.2 ml) cups. Each of the cups was filled with 121 grams of potting soil. One water catch tray was placed in the bottom of each box half and one tray was placed outside of the boxes (for the control). Three of the soil filled cups were placed in each of the water catch trays. A permanent marker was used to label one cup in each box with a one, a two, or a three. One germinated bean plant seed was planted 2.5400 centimeters down from the top of the soil in each of the cups. Each plant was watered with 59.15ml of water every other day and measured in centimeters every day. On the final day of experimentation the results for the average height of the plants were: yellow with 24.000 cm, blue with 23.667 cm, control with 23.367 cm, black with 23.267 cm, green with 22.400 cm, white with 21.767 cm, and red with 9.633 cm. It was concluded that yellow made the plants grow to be the tallest.