

Anne Porter
Light or Heat

In my experiment, I wanted to answer the following question. I asked, “What affects plant growth more, light or heat?” I chose to experiment on this for several reasons. I knew from past experiences that plants needed both light and heat. I wondered if one of those variables could be removed and still have the plants grow.

In my experiment, I grew six amaranth plants. I set three plants in a dark yet warm room, and the other three in a bright yet cold room. I monitored the plant growth each day for fourteen days, and measured the height of the plant. Each plant received the same amount of water and had four small seeds in each pot.

At the end of the two weeks, the plants in the bright area had grown taller than the plants in the dark area. On average, the plants in the bright room grew three centimeters taller at 8 cm. than the plants in the dark room at 5 cm.

My conclusion was that plants need light over heat to grow. This can help agriculturalists sprout grow plants in areas that were previously not used for plant growth, allotting more area for the expansion of cities, or freeing up land for things such as windmills or oil drilling for energy.