

Mackenzie Mathias

*Diatom Algae*

My question is which type of water (saltwater, tap water, distilled water, and purified water) will grow diatom plants the longest in seven days. I predicted that distilled water will result in the longest growth for the plant followed by purified water, than tap water, and finally saltwater. After I receive the diatoms plants and prepare each sterilized petri dish with the water, I placed one pipette full of diatoms into each petri dish. I checked them each day under the microscope to see if they are white or brown to see if they are dead. After seven days, I recorded all my data to see which ones lived the longest. In my experiment, I discovered that filtered and distilled water grew the diatom plants for an average of more than seven days. This was followed by tap water which grew the diatoms plant for an average of six days. The water that grew the plants for the least amount of time was saltwater which grew the plants for an average of 4.33 days. After completing my experiment, I discovered that filtered and distilled water grew diatoms plants the longest followed by tap water and then finally saltwater. This experiment will help our world because based on how the diatoms grew in each water we can see which water contains the most toxins or things that most living things cannot survive on. We can also see which water is the healthiest and safest to use in our everyday lives.