

# Comparing the Potentially Hazardous Chemical Components of Different Types of Drinking Water and the Dangers We Might Not Perceive

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The objective of my project was to test the differences in types of bottled and tap water and develop conclusions on what type of water is best. My hypothesis was that there is not distinct difference in bottled and tap water and no reason why one should be favored over another. I used water test strips to test for chemical components in the waters. Overall, I found that Product 8 and Product 5 water contained the least harmful substances as well as filtered well water. I conducted a survey to find which type of bottled water people found most appealing. 25% of subjects preferred Product 7. However, when given a taste test, one type of water was not favored over another. This concludes that without the packaging, people do not notice the difference between types of water. Advertisements can sway the consumers mind into believing a certain water tastes better, and people become more comfortable consuming the water they want in a specific packaging. The results of this experiment have shown how both tap and bottled water have impurities within them and there is no drastic difference in composition. Plastic water bottles can contribute to pollution and lead to human health problems. Therefore, even though the chemical composition of the types of water was similar and both tap and bottled contained harmful substances, bottled water has that extra risk of the plastic components.