

CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

Name(s)	Project Number
Erwin Singh	
8	
	35490
Project Title	
Tap Water vs. Filtered Water	
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Objectives/Goals Abstract	
My objective was to test tap water to see if there were contaminants to hard	n my health and compare it to
the level of contaminates in distilled and filtered water. My hypothesis was	If I est tap water, distilled
water, and filtered water, which will I find to be best for my health.	r subjects and distilled water
water from different sources; I can compare the result to multiple filter wat from the store. I conceive there will be less contaminate in filtered water th	an either of the two.
Methods/Materials	op distilled water purchased
The materials used in my experiment are water filtered with idvanced carb from the store, and multiple tap water subjects acquired from different loc	tions. To test the water i used
three PurTest Water test kits for the most accurate measure.	
Results After the experiment the results show that Filtered water has less chlorine a	and nitrates than tap water but
Iron from the filter can wash into the filtered water. Distilling water may take out contaminates it can	
increase the alkalinity; in the data there was an outlier which in turn could have thrown off my numbers. It	
Iron from the filter can wash into the filtered water. Detilling water may take out contaminates it can increase the alkalinity; in the data there was an outlier which in turn could have thrown off my numbers. It also makes the water have more traces of iron and copper because of equipment used in preparing distillation. My hypothesis was incorrect because conceived filtered water to have the least contaminants	
but it was distilled water.	
Conclusions/Discussion The least contaminates out of the three was in Distilled Water but the price of distilled water is also the	
The least contaminates out of the three was in Distilled Water but the price of distilled water is also the highest. Filtered water had less contaminates than tap water but some of the materials used in the filter could wash into the water. Tap water had no contaminate levels that were harmful to your health but it has	
could wash into the water. Tap water had no contaminate levels that were harmful to your health but it has	
an off taste due to the chlorine added to prevent bacteria growth. The price though is greatly varying tap water costs usually \$.0016 per gallon and distilled costing upwards \$1 a gallon. Filters can be quite pricey	
too running upwards \$100 dollars and having to be replaced after a period of time. In the end it comes down to what you're willing to repend and your aste preference.	
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Summary Statement	
I tested pultiple subjects of water filtered with advanced carbon, distilled water purchased from the store, and i tested tap water from three different locations; for 11 different contaminates.	
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Help Received My mother helped assemble the board by cutting and pasting.	
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