

CWSF 2017 - Regina, Saskatchewan



Annie Saint

The Effect of Apple Juice on Baby Teeth

Challenge: Health

Category: Junior

Region: Ottawa

City: Ottawa, ON

School: Macdonald-Cartier Academy

Abstract: This project explored the effect of commercial and homemade apple juice on baby teeth. The hypothesis was that the juice with the highest acidity and sugar content would have the worst effect. Baby molars were weighed and x-rayed before and after immersion in the juices for 14 days. The results showed that all juices caused erosion but the homemade juice showed the least.

Biography

I am a Grade 8 French-immersion student at Macdonald-Cartier Academy in Ottawa, Ontario. I love all subjects, especially science and math. I'm very involved in school activities such as committees and sports teams. Outside of school, I play soccer, hockey, golf and I swim. I also compete in Highland Dance. I play the flute and the piano. Ever since I was four years old, I've wanted to become a dentist and I've saved all of my baby teeth knowing one day they would come in handy. I was inspired to do my project because I had heard of something called baby bottle tooth decay where baby teeth can be damaged by apple juice given in bottles. I wanted to explore this with my project to help parents make healthy choices for their children. If I were to continue my research, I would explore ways to protect baby teeth from negative effects of juice and other foods. For anyone wanting to do a science experiment, I advise you to do something that you're passionate about and that can help people lead better and healthier lives.

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