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E-85 At Home

The purpose of my experiment was to see if flex fuels could be made easily at home using raisins and corn each mixed with 15% gasoline. What I did was grind up the corn and raisins separately in a food processor. I mixed water, sugar and yeast with the corn and the raisins. I set them out for fermentation which was for two weeks. I thought that the raisins would create a flex fuel because it has higher sugar content than the corn. I wanted to do an experiment using fuels because I used different fuels on a previous project. I thought of ethanol because it is such a big concern right now. Many fuels produce gasses that can harm the environment. Flex fuels are less toxic and not as harmful on the environment. The results of my experiment agreed with my hypothesis. I tested them in my motorcycle and the corn didn't do anything, but the raisins started it up and it ran for a good 6 min. 37 sec. I also tested if they would freeze or burn. The corn unfortunately didn't burn and it froze. The raisin fuel didn't freeze and had a bright blue flame. After doing this experiment, I learned that flex fuels could be made from fruits and vegetables.