

# Does color affect taste?

Third grade

## Testable Question:

How does changing only the color of a drink affect taste when the liquid is the same?

## Prediction:

I think the color of the drink will affect taste because people might look at the unusual one and they might say “eww! What is that!”, and then think that it is gross when it is just as good as the normal one.

# Procedure:

1. First, we made got some apple juice.
2. Then, we colored the juice three different colors that were green, blue, and plain with food coloring.
3. Next, we got three volunteers to drink all the colors of the apple juice, after we figured out that they weren't allergic to the apple juice.
  - A. We measured out the exact same amount of juice in three identical glasses
  - B. We mixed food coloring carefully into two of the glasses
  - C. We let the juice sit for 20 minutes to make sure they were not different temperatures.
4. Then, they told us which one they liked best and why.
5. Finally, we wrote down what they said on a piece of paper.

# Background:

I chose this project because it looked interesting.

In my research I found out that color only affects taste for some people.

This project is important because I think it is fun and interesting because it taught me about that some people might not like food because of the food's taste.

# Constant Conditions:

Independent Variable: The color of the juice was the only thing in the experiment that was different than the other juices.

Dependent Variable: We were trying to measure how many people liked the colored or plain juices.

Constant Conditions: That all of the juices were the same temperature and that they were all the same juice.

# Data and Trials:

Different colors:	Plain	Green	Blue	Why you like it better
Onur Dayi			X	I like it because it was blue, and I like blue.
Anne	X	X	X	They all taste the same.
Ozan		X		I like it because it is green, and I just liked the color.

# Original Data Sheet

Does color affect taste? Check off with which one you like best.

Different Colors	Plain	Green	Blue	Description of what you like best
Onur :			✓	<del>Because</del> it was blue, but I like blue
Anne :	✓	✓	✓	They taste the same
Ozan :		✓		Because I like green

Do not check off more than one square.

## Conclusion and Reflection:

I found out that only color affects taste on some people.

I was surprised that someone said that they all tasted the same.

If I did this project again I would have more volunteers, because this time there were only three volunteers which made it hard to learn a lot about how color affects taste.