

# Rainbows

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## Abstract

What is the best liquid to make a rainbow?

## Background Research

You would normally need water and the sun to make a rainbow. The rainbow also has six colors red, orange, yellow, green, blue, and purple. "A **rainbow** is a meteorological phenomenon that is caused by reflection, refraction and dispersion of light in water droplets resulting in a spectrum of light appearing in the sky."

## Procedures

We first put the sprite and vinegar in a spray bottle. Then we sprayed them in a sunshine ray and took videos of it. Finally, we got the Pam spray and took a video for that too. After each test, we wrote down what we found.

## Video Showing Tests

<https://vimeo.com/514805999>

## Data Tables

Liquid Tested to Make Rainbow	Did it work? Yes or No	Which worked best?
Pam Cooking Oil Spray	No	Did not work
Vinegar	Yes	Worked best
Sprite	Yes	Worked second best

## Results

It turns out that our prediction was wrong. The Sprite was not the best, although it was the second best. The best liquid was Vinegar. It looked the best in both angles.

## Conclusion

We learned that vinegar is the best liquid to make a rainbow of the three we tested.

## References

<https://en.wikipedia.org/wiki/Rainbow>