



Project Exploration creates transformative learning opportunities for youth underrepresented in the sciences –particularly students of color and girls – by equipping them with the skills, practices, and mindset needed for a lifelong pursuit of learning. STEM@Home makes activities around science, technology, engineering, and math accessible and fun to do at home. This STEMbook activity, resources, and more are available at www.projectexploration.org/stemathome.

In this activity, you will:

Follow the steps of the scientific method and form conclusions based on your observations and analysis.

Supplies Required:

- Graphic organizer
- 1 plate
- 1 small cup
- 1 snack size pack of skittles
- 1 cup of hot water

Video

Watch this video to see how skittles are made: <https://tinyurl.com/y5gt4jm9>

Overview

Scientists are always using the scientific method (process or method of research) to study and learn about things around us and all over the world. If you've already watched the video you've learned that Skittles are made in Illinois at one of the Mars Wrigley Confectionery! Now imagine being in a lab where you are the scientist!. Your job is to find what happens when hot water is poured on the Skittles. Use the steps of scientific method--Problem, Hypothesis, Experiment, Analysis, Conclusion--to see what happens!



Instructions

1. Use the graphic organizer
2. STEP 1 Problem: What will happen when hot water is poured on Skittles?
3. STEP 2 Hypothesis: Make a prediction!
4. STEP 3 Experiment:
Spread the skittles onto a plate in a circle, fill a small cup with hot water- it doesn't need to be boiling, hot tap water from the sink is fine
5. Pour water into the center of the plate and draw what happens
6. STEP 4 Analysis: Based on your observations what do we now know?
7. What happened to the Skittles? Did the sugar dissolve? What happened to the colors on the Skittles ? Why do you think that happened?
8. STEP 5 Conclusion: Was your hypothesis correct?

Additional Resources

1. Hot water and Skittles experiment explained here! <https://tinyurl.com/y4yuo6nd>

Share It Out

Share on social media: Share the results of your experiment with your friends and family on social media! Explain the steps of the scientific method in a video! Use the hashtags:

#ScientificMethod
#ProjectExploration
#StemAtHome

Share via PE's website: Students who complete STEM@home activities and share what they learned with the PE team via our website will earn points which can be traded in for cash prizes at the Explore Store. Your project number is 203. Learn more at www.projectexploration.org/explore-store



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