



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:

get creative in the kitchen to come up with a new juice flavor.



Supplies Required:

Variety of fresh fruits for juicing such as oranges, lemons, lime, watermelon
Kitchen tools for juicing and mixing the fruits; knives, strainer, measuring spoons, plastic bowl
Small cup
Honey

Video

Follow along as [Caterina and the Lemonade Stand](https://tinyurl.com/y2ry9u5u) is read aloud: <https://tinyurl.com/y2ry9u5u>

Overview

Caterina decides to build a lemonade stand to earn enough money to buy her a scooter. She quickly learns that a lot of her friends have lemonade stands as well so she must figure out how to make her drink different from the others.

It's your chance to make your own drink! Tell your friends about your unique drink. How did you make it? What ingredients did you use? If you were going to sell it in a store what would you name it and how much would it cost? Make a label for your drink that includes the following information: name of the drink, cost of the drink, and ingredients in the drink. Remember to make it colorful and attractive so people will want to buy it.



Instructions

1. Problem: What do we want to solve? Create a fruit-flavored drink that is unique and has a catchy name.
2. Solutions: What are some ways to solve the problem? What flavor drink do you want to make? What will you call it? How will you get the juice out of the fruit?
3. Model: Build your design! Choose one or more types of fruit. Use the kitchen tools to squeeze and strain the juice. Add honey to sweeten if you like.
4. Test: Does your model work? Taste the juice you created.
5. Reflect & Redesign: Was your model successful? Does it need to be redesigned? Do you like it? Is it too sour? Is it too sweet? Or is it just right? What changes do you need to your make to your recipe to make to taste just right?

Additional Resources

1. How is orange juice made? <https://tinyurl.com/y5xh27ub>

Share It Out

Share on social media: Share your concoction on social media and share the recipe! Post to social media and use the hashtags:

#JuiceRecipe
#ProjectExploration
#StemAtHome

For more activities like this one, go to www.projectexploration.org/stemhome. If you're interested in learning more about Project Exploration and our free events, programs, and activities, please find us on social media and be sure to follow!



Call or text us for help: 312-772-6634

www.projectexploration.org