



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:

Learn about cells and use a technique called marbling to create a piece of art of what cells could look like under a microscope.



Supplies Required:

1 tbsp cooking oil	Fork
Liquid food coloring	Water
Plant saucer	
White paper	
Scissors	
Pencil	
Glue or tape	

Video

Watch this video all about Human Cells: <https://youtu.be/8vo59AKzU4Q>

Overview

Do you know what every living being on Earth is made of? Cells! Your body is made up of trillions of cells. Fun fact, the average human body is made up of 30 trillion cells. Cells are so small that you can only see them using a tool called a microscope. In this activity, you will use a technique called marbling to color a piece of paper to look like what a cells look like under a microscope.

Instructions

1. Fill your plant saucer with about 1 inch of water.
2. Pour in 1 tbsp of cooking oil.
3. Add 5 drops of food coloring.
4. Stir gently with a fork to mix.
5. Lay your paper on top of the water and remove immediately. Let the excess drip off into the plant saucer.
6. Lay your paper flat and wait for it dry. Repeat with more paper. Or mix up a new dish of water, oil, and food coloring using a different color.
7. Once dry, using a pencil a lid or cup trace a circle onto the dyed paper.
8. Cut out the circle and glue or tape onto another sheet of paper to display your masterpiece!

Additional Resources

1. Watch this video to see what different objects look like under a microscope: <https://youtu.be/DDIncvfjw0>

Share It Out

Share on social media: Record a video or take a picture of your activity and post the results online using the hashtags:

#Cells
#Marbling
#ProjectExploration
#StemAtHome

Tag a friend and challenge them to do it, too!

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