



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 the ear and make your own rainmaker.

Supplies Required:

Colored pencils
Cardboard tube
Cellophane
Rice
Masking tape

Video

How your ears work: <https://tinyurl.com/axmy34h5>

Overview

The ability to hear is one of your five senses - your ears are incredible! Your ears help to take electromagnetic energy and turn it into something meaningful. Sounds waves enter your ear and travel through three areas - outer ear, middle ear, and inner ear. The inner ear helps to take the vibrations and turn them into electrical signals for the nerve to send to the brain. The inner ear also helps you with your balance!



Instructions

1. Secure some cellophane over one end of a cardboard tube with tape
2. Fill the tube with some rice - different amounts will give you different sounds
3. We then covered the other end with cellophane and secured it with sticky tape.
4. Decorate your rainmaker

Additional Resources

1. What is sound? <https://tinyurl.com/yrswhb8x>

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:

#RainMaker
#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