



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:

Explain what science is and how it affects our daily life, and explain the steps of the scientific method.

Supplies Required:

2 Hatching creatures
Graphic Organizer (page in your STEMkit!)

Video

Watch the video and learn how to be a scientist: <https://tinyurl.com/y35oqr4n>

Overview

Science is the study of the world. Scientists use facts, by making observations and doing experiments, that help us answer questions and solve problems.

Explorers in the jungle just came upon some eggs! They found them in a stream and have never seen them before, so they have asked the students at PE to help identify them! In order to help the explorers, you will be the scientist. In order to be a successful scientist, you need to follow a process; just like a baker who is making cookies. That process is called the scientific method, which is a series of steps used to solve problems. The steps are:

- **Problem:** What do we want to solve?
- **Hypothesis:** Make a prediction! What do you think will happen?
- **Experiment:** Test it out and make observations! What do you see?
- **Analysis:** Based on your observations, what do we now know?
- **Conclusion:** Was your hypothesis correct or incorrect? Was your guess about what would happen right?

Instructions

1. Walk through the graphic organizer as you complete the activity.
2. **STEP 1 - Problem:** What do we want to solve? What creature is this?
3. **STEP 2 - Hypothesis:** Make a prediction! What kind of creature will hatch if we place the egg in water?
Draw your prediction. What will hatch from the egg? How will the creature look? The more detailed the better!
4. **STEP 3 - Experiment:** Test it out and make observations!
Place the toy into a cup of water and make observations.
Set a timer and draw the egg at every 10 second or 30 second mark.
5. **STEP 4 - Analysis:** Based on your observations what do we now know?
What animal hatched? Draw the final product.
6. **STEP 5 - Conclusion:** Was your hypothesis correct or incorrect?
Use the sentence starter: My hypothesis was (in)correct because...

Additional Resources

1. Learn a new song! Sing along to the steps of the scientific method: <https://tinyurl.com/h3wo7vp>

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 101. Learn more at www.projectexploration.org/explore-store



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

www.projectexploration.org