



10 STEM Activities

Featuring Jimothy!

Engaging, hands-on STEM fun that builds creativity, problem-solving, and critical thinking!

1 Build a Home for Jimothy

Challenge: Design and build a shelter for Jimothy using blocks, cups, craft sticks, LEGO® bricks, or recycled materials.

1. Plan your design.
2. Build the shelter.
3. Test it by placing Jimothy inside.
4. Improve your design.



STEM Focus: Engineering Design Process

3 Jimothy's STEM Adventure Story

Writing Prompt:

"Jimothy needed to solve a problem. He had to cross a river, climb a mountain, or deliver a package. How did he use science, technology, engineering, or math to help?"

Write a story and illustrate it!



STEM Focus: Engineering Thinking and Creativity

5 Measure Jimothy

Students use cubes, paper clips, or Unifix® cubes to measure Jimothy's height or length.

Questions:

- How tall is Jimothy in cubes?
- Which measuring tool gives the biggest number?



STEM Focus: Measurement and Data Collection

7 What Does Jimothy Need to Grow?

Help Jimothy learn about plants by growing grass or bean seeds.

Students:

- Plant the seeds.
- Observe daily.
- Draw changes.
- Record growth in a journal.



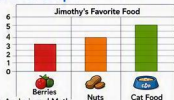
STEM Focus: Life Science and Observation

9 Jimothy's Favorite Graph

Students vote for:

- Favorite food
- Favorite activity
- Favorite season

Create a class graph to show the results!



STEM Focus: Data Analysis and Math

2 Can Jimothy Cross the River?

Challenge: Build a boat for Jimothy that can float in a tub of water.

Predict:

- Will it float or sink?
- How many pennies or counters can it hold?

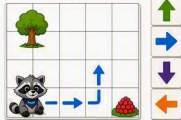


STEM Focus: Buoyancy and Problem-Solving

4 Code Jimothy's Journey

Create a simple grid on the floor.

Challenge: Use arrows (up, down, left, right) to help Jimothy travel from the tree to a destination. Write a sequence of directions.



STEM Focus: Coding and Computational Thinking

6 Build a Bridge for Jimothy

Challenge: Build a bridge that can support Jimothy using only paper and tape.

Test different designs:

- Folded paper
- Flat paper
- Accordion folds



STEM Focus: Structures and Engineering

8 Design a STEM Invention for Jimothy

Prompt: "What invention would make Jimothy's life easier?"

Students draw and label their invention!

Examples:

- A trash-sorting machine
- A weather-proof den
- A robot helper
- A snack-delivery backpack



STEM Focus: Engineering and Innovation

10 Jimothy's Mystery Footprints

Make paper footprints or footprints around the room.

Students investigate:

- Measure the tracks.
- Follow the clues.
- Predict where Jimothy went.



STEM Focus: Observation, Measurement, and Scientific Reasoning

These activities encourage curiosity, creativity, and teamwork—all while helping young learners think like scientists and engineers!