



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](http://www.projectexploration.org/stemathome).

## In this activity, you will:

build a new chair for baby bear!



## Supplies Required:

- 10 straws
- 10 popsicle sticks
- 10 toothpicks
- 1 piece of styrofoam
- 3 sheets of cardboard
- 4 toilet paper rolls
- Glue, tape, scissors

## Video

Follow along as Goldilocks and the Three Bears is read aloud: <https://tinyurl.com/y6drnlzs>

## Overview

After a walk in the woods, the three bears return to their house to find Little Wee Bear's chair broken, his porridge gone, and someone sleeping in his bed. Using the materials provided, help build a new chair for baby bear.



## Instructions

1. Problem: What do we want to solve? How will you build a new chair for Baby Bear?
2. Solutions: What are some ways to solve the problem? How will you make it stable? Look at the chairs in your house for ideas. What parts of a chair do you need to include in your design?
3. Model: Build your design!  
Gather your materials to build the chair. Make sure it is strong and sturdy.
4. Test: Does your model work?  
Place your toy figure or clay bear in the chair.
5. Reflect & Redesign: Was your model successful? Does it need to be redesigned? Is it stable and strong enough to hold the toy figure or bear? If not, what do you need to change to make it more stable and strong?

## Additional Resources

1. How are chairs made? <https://tinyurl.com/yxopb9r8>

## Share It Out

**Share on social media:** Share a photo of your design on social media, using the hashtags:

#BearChair  
#ProjectExploration  
#StemAtHome

For more activities like this one, go to [www.projectexploration.org/stemhome](http://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

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