

**Kid's Club Family Firefly Challenge**

This challenge will help your child use the Engineering Design Process to solve a problem.

**Watch:**

**PBS Kids: The Cat In The Hat Knows A Lot About That! Building Bridges**



As you watch, notice how Nick and Sally try to cross a gap and how the Cat helps them think like engineers. After watching the video, what did you notice?

- What problem were Nick and Sally trying to solve?
- What happened when they tried their first bridge idea?
- What did the Cat teach them about strong shapes or sturdy materials?

**Do:**



Now it's your turn to be an engineer and build a bridge! Use simple materials from around your home: blocks, paper, cardboard tubes, tape, or empty containers. Build a bridge across a gap. Place two sturdy books a short distance apart. Try to build a bridge that connects the books. Test your bridge by placing small objects on top (toy car, coins, small figurines).

- Did it stay strong or sag?
- What could you redesign?
- Redesign, rebuild, and retest - just like real engineers.

**Chat:**

After building and testing your bridges, take a few minutes to talk together:

- What design worked the best?
- What shapes or supports helped your bridge stay steadier?



**Want more?**

**Play Work It Out Bridge a Rama Game on PBS KIDS.**