



# INVENT THE SUMMER

## Week 1: Build a Bridge

### 1 Complete the Challenge.

Build a bridge with the longest possible span that can carry the most weight.

The Rules	
You CAN:	You CAN'T:
<ul style="list-style-type: none"><li>✓ You can research different bridge designs to help figure out what type of bridge will be the strongest.</li><li>✓ You can make the bridge as long as you want, just remember that it also has to support weight.</li><li>✓ You can build your own support structures or attach the ends of the bridge to something prebuilt, like a chair or a wall.</li></ul>	<ul style="list-style-type: none"><li>✗ You can't use a pre-made bridge model or building kit.</li><li>✗ You can't use something that acts like a bridge by itself (like 1 long piece of wood). The roadway of your bridge should be more than just one item!</li><li>✗ You can't support the span in the middle or attach the bridge to the ceiling.</li></ul>
When you're done, test the limits of your bridge. How much weight can it hold? Can you change it to support even more weight?	
<b>🤔 Our tips to avoid angry parents 😊</b>	
DON'T	DO:
<ul style="list-style-type: none"><li>🤔 Don't make your siblings or pets walk across the bridge.</li><li>🤔 Don't build your bridge in a place that's in the way.</li><li>🤔 Don't use anything fragile to build your bridge or transport anything fragile over your bridge!</li></ul>	<ul style="list-style-type: none"><li>😊 Clean up after yourself. Always leave your workspace cleaner than you found it.</li><li>😊 Get permission to use your materials.</li><li>😊 Keep trying! Your bridge probably isn't going to work the 1st time.</li></ul>

## 2 Create a video of your solution.

Try to keep your video under 90-seconds long and include the following:

- How does your solution work?
- What materials did you use?
- Did you have to overcome any problems?

You can see tips to creating great entry videos [here](#).

Your video will be visible to anyone with an internet connection, so it's important to protect your privacy and stay safe. See our [website](#) for more information.

## 3 Enter the contest by 9:00pm ET on June 23, 2024.

Ask a parent to upload your video to our website using our [online entry form](#).

All contest entries will receive 1 point for our big end-of-the-summer prize drawing! You can earn bonus points for:

- Completing our weekly online STEM course - 1 point
- Entering an Epic Fail - 1 point
- Getting a friend to participate in their first ever Invent the Summer challenge (make sure they give you credit) - 5 points
- Completing 3 challenges in a row - 3 points
- Completing 5 challenges - 5 points
- Completing ALL 8 challenges - 5 points

## 4 View other solutions and VOTE!

You can see all the solutions and vote for your favorites from 12:00pm ET on Monday, June 24 until 3:00pm on Tuesday, June 25. See our [voting rules](#) for more

## 5 Winners announced by 8:00pm on June 25!

**Audience Choice Award:** Goes to the solution with the most online votes.

**Board Choice Awards:** Selected by the Junior Board of Engineers. Solutions will be judged on originality, execution, and presentation.

**Epic Fail Award:** Show us your failed attempts! This award goes to the most impressive failure of the week.

Winners receive their choice of an *Invent the Summer* t-shirt, bag, or notebook.