Cross the Gap
Ready for a little Tech Challenge fun?
Let’s cross the gap!

How would you cross a ravine? Design and build something that will get a small item across an 18-inch gap. No tape or glue allowed.

You will need some building materials and connectors. Use what you have and be creative!

<table>
<thead>
<tr>
<th>Building materials</th>
<th>Connectors</th>
<th>One small item</th>
<th>No tape or glue!</th>
</tr>
</thead>
<tbody>
<tr>
<td>Craft sticks</td>
<td>Twist ties</td>
<td>For example:</td>
<td>Why? Because building without tape or glue lets you change your designs faster and makes it easier to reuse materials.</td>
</tr>
<tr>
<td>Paper bags</td>
<td>Paper clips</td>
<td>Ball</td>
<td></td>
</tr>
<tr>
<td>Paper plates</td>
<td>Rubber bands</td>
<td>Small toy</td>
<td></td>
</tr>
<tr>
<td>Plastic cups</td>
<td>Pipe cleaners</td>
<td>Action figure</td>
<td></td>
</tr>
<tr>
<td>Chopsticks</td>
<td></td>
<td>Stuffed animal</td>
<td></td>
</tr>
</tbody>
</table>

Ready, set, build!

1. Create an 18-inch gap between two chairs, two boxes, or two tables.
2. Choose a small item and brainstorm how you can get it across.
3. Design and build a device that will bring your small item to the other side ... no glue or tape allowed.
4. Build and test again and again until you’ve met the challenge!

Bonus challenges
- Make the gap wider. Can you still cross it?
- Find more items or a heavier item to deliver. Can you get the new item(s) across the gap?
- See how many times in a row you can get your item across the gap. What’s your record?
- Make it mobile! Create a delivery device that you can move from one spot to another.

Questions to ask yourself:
- If you could use any material, what would you choose? Why?
- If you tried different items, which were easier and why?

Share what you build on Facebook using #TheTechChallenge
thetech.org/techchallenge