

# The Tech Challenge

Presented by  
Zoom Video Communications

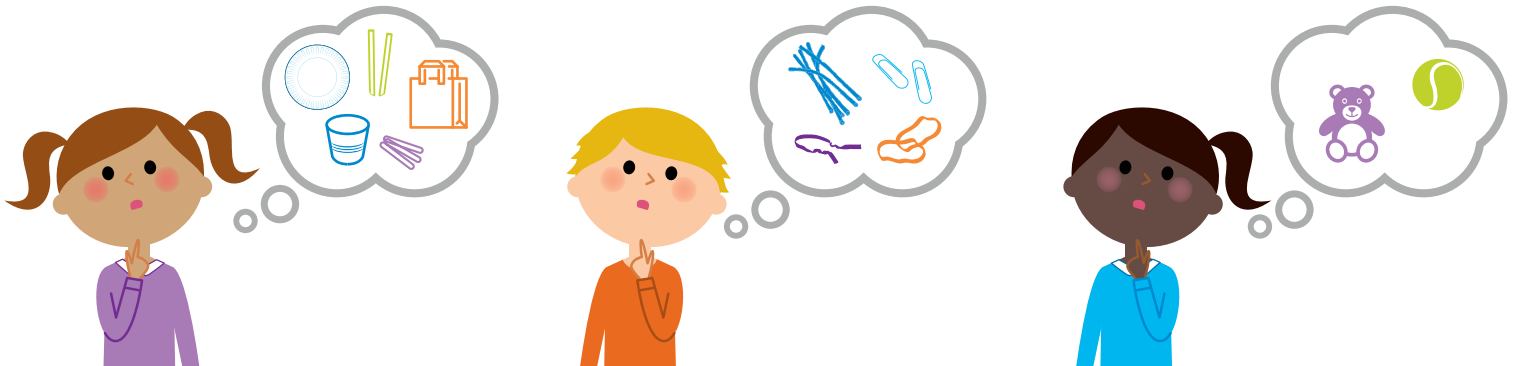
# Cross the Gap


Ready for a little Tech Challenge fun?  
Let's cross the gap!

Created June 2021

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.

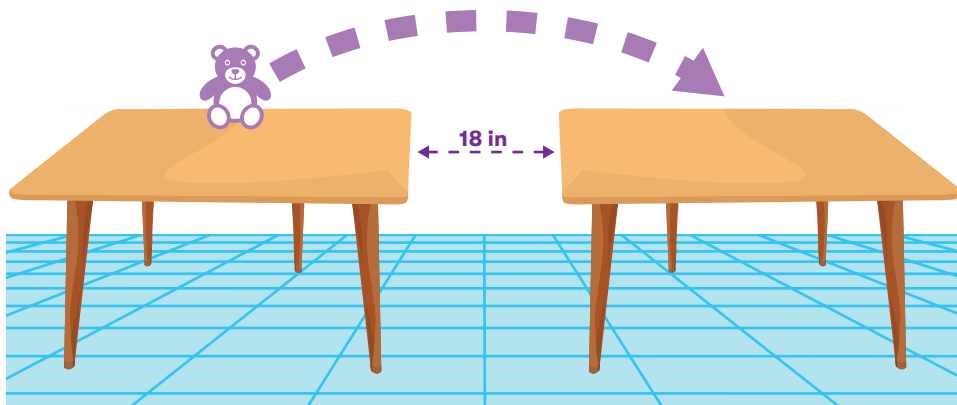
**You will need some building materials and connectors.** Use what you have and be creative!



Building materials	Connectors	One small item	No tape or glue!
<ul style="list-style-type: none"> <li>• Craft sticks</li> <li>• Paper bags</li> <li>• Paper plates</li> <li>• Plastic cups</li> <li>• Chopsticks</li> </ul>	<ul style="list-style-type: none"> <li>• Twist ties</li> <li>• Paper clips</li> <li>• Rubber bands</li> <li>• Pipe cleaners</li> </ul>	For example: <ul style="list-style-type: none"> <li>• Ball</li> <li>• Small toy</li> <li>• Action figure</li> <li>• Stuffed animal</li> </ul>	 <p>Why? Because building without tape or glue lets you change your designs faster and makes it easier to reuse materials.</p>

## 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](http://thetech.org/techchallenge)