



# The Tech Challenge

Presented by  
Zoom Video Communications

# Shelter in a Storm

Ready for a little Tech Challenge fun?  
Let's build a home for a bird!

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How do birds stay safe in a storm? Design and build a bird home that is strong and sturdy, even when it's windy!

**You will need some building materials, materials to protect your bird and connectors.**

Use what you have and be creative!



Building materials	Materials to protect your bird	Connectors	Something bird-sized
<ul style="list-style-type: none"> <li>• Paper and cardboard</li> <li>• Foil</li> <li>• Toilet paper rolls</li> <li>• Paper plates</li> <li>• Sticks</li> </ul>	<ul style="list-style-type: none"> <li>• Cotton balls</li> <li>• Fabric</li> <li>• Foam</li> <li>• Leaves</li> </ul>	<ul style="list-style-type: none"> <li>• Rubber bands</li> <li>• Paper clips</li> <li>• Binder clips</li> <li>• Twist ties</li> <li>• String</li> </ul>	<ul style="list-style-type: none"> <li>• Ball</li> <li>• Stuffed toy</li> <li>• Small water bottle</li> </ul>



**No tape or glue!** Why? Because building without tape or glue lets you change your designs faster and makes it easier to reuse materials.

## Ready, set, build!

1. What do you think a bird needs in a home? Design and build a home that will protect a bird on a windy day.
2. Time to test!
  - Put your small item in your bird home.
  - Hold your bird home up high and shake it like a tree in the wind.
  - Did the home keep your bird safe? Did the bird stay inside? Did your home stay together? What can you change to make your bird home better?
3. Keep building and testing until you've met the challenge!



## Bonus challenges

- Can your home stay safe during even stronger wind? Shake it harder to find out.
- Oh no! It's raining. Does your home keep the bird dry?
- Change your design to hold more birds. Test and rebuild to see how many you can fit!

## Questions to ask yourself:

- Why did you choose the materials you used?
- If you could use any material, what would you choose? Why?

Share what you build on Facebook using **#TheTechChallenge**

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