

Stop that Ball!

Ready for a little Tech Challenge fun? Let's build a device that stops a ball from bouncing!

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When you drop a ball, it bounces! Can you design something with items found around your home that stop a ball from bouncing? Can you make it land so it doesn't move at all?

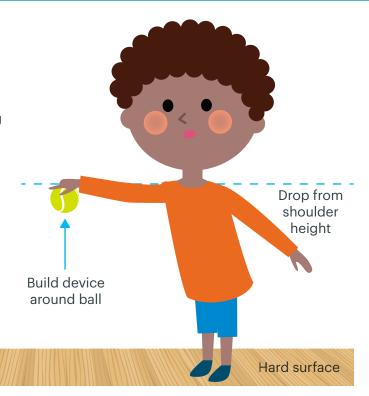
You will need some building materials, connectors and a bouncy ball. Use what you have and be creative!



Bouncy ball Building materials Connectors No tape or glue! · Paper and cardboard Foil Rubber bands Why? Because building without Paper clips · Tennis, ping pong, Toilet paper rolls tape or glue lets you change Binder clips golf, handball, or Sponges your designs faster and makes rubber Plastic cups Twist ties it easier to reuse materials. Paper plates String Bubble wrap

Ready, set, build!

- 1. Pick a ball to test with.
- Then, build a device that will stop it from bouncing when you drop it from shoulder height.
- 3.Test your device by dropping it on a hard surface. No carpet allowed! Did it work? Do you need to make alterations?
- 4.Test again until you've met the challenge!



Bonus challenges

- Drop your device from higher and higher places. Does your device still work?
- Try a larger bouncy ball and scale up your device!
- Create a target. Can you land on it?

Questions to ask yourself

- Why did you choose the materials you chose?
- If you had access to any material, what would you use? Why?