The Tech Challenge
Presented by Dell Technologies

Stop that Ball!
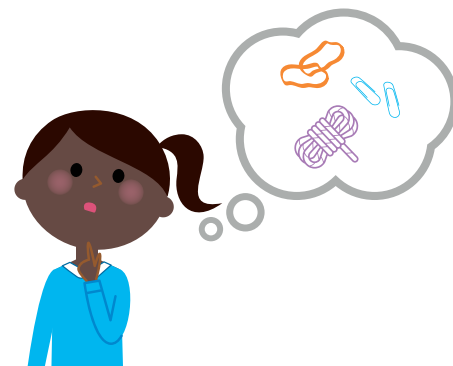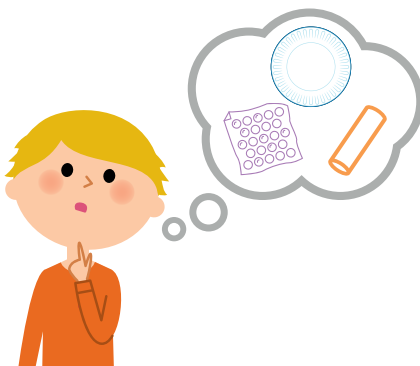## Ready for a little Tech Challenge fun?
Let's build a device that stops a ball from bouncing!
Created June 2020

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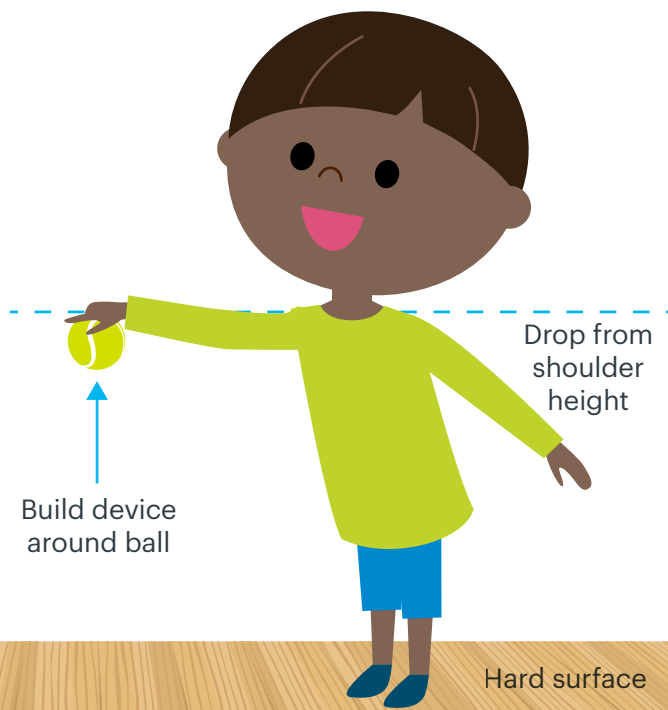
You will need some building materials, connectors and a bouncy ball. Use what you have and be creative!

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

Ready, set, build!

1. Pick a ball to test with.

2. 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!

Build device around ball

Drop from shoulder height

Hard surface

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?

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

thetech.org/techchallenge