

# Build Your Own Rollercoaster

## Creative Expression



### What You Will Discover

Build the marble roller coaster of your dreams out of paper and tape! Make sure the marble can make it around each turn without flying out!

### The Adventure

Have you ever wanted to design your own roller coaster? Using simple materials like cardstock and tape, build a roller coaster for a marble. It can be as complicated or as simple as you like, but keep in mind that your marble represents passengers—if it comes flying off of the track, you may need to rework your design!



DISCOVER



MEETING

9 INDUSTRY, INNOVATION  
AND INFRASTRUCTURE



**NSERC  
CRSNG**



It starts with Scouts.

## Plan

- What materials will you use to build your rollercoaster?
- Where can you find ideas for your design?
- How will you keep your marble from flying off of the track?

## Do

**#ScoutsDoStuff:** Take photos of the building process and a video of your coaster in action to share with others!

## Review

- Did your design work how you thought it would? What changes did you need to make?
- What challenges did you run into while building? What did you do to solve these challenges?
- How do you think professional designers and builders solve problems when they run into them?

## Safety Note

- What materials are you using that require extra caution? How can you stay safe when using them?
- How can you make sure that no one trips on your roller coaster?

## Try this

### Keep it Simple

Building a paper roller coaster can be pretty tricky, so why not start by using other building materials? Could you build a marble roller coaster out of **LEGO**?

### Take it Further

How tall can you make your coaster? What elements will you add to it to help compensate for a taller coaster? What materials will you use to reinforce your coaster? How can you make your coaster go from one side of the room to the other?

