

“In the Construction Zone”

Module 12, Adventure 1



Prompt:

Use TinkerCAD to learn about three-dimensional objects and create your own construction vehicle.

Materials:

- Laptop or Tablet
- Internet browser (Chrome, Safari, etc.)
- Writing utensil
- Explorer Notebook or a piece of paper

Instructions:

1. With the help of a grown-up, create a free account on www.tinkercad.com.
 - a. You can also use an existing Google or Apple account to sign in.
2. Follow this Boston Children’s Museum [tutorial](#) to learn how to make a vehicle out of 3D shapes.
 - a. Watch the entire video once, and then watch it again, playing and pausing the video while you create your own vehicle.
 - b. Spend some time exploring TinkerCAD - try things that aren’t included in the tutorial.
3. Sketch your own construction vehicle in your Explorer Notebook or on a piece of paper.
 - a. Before inventing your own construction vehicle, think about different construction vehicles you may have seen before.
4. Use TinkerCAD to create your own construction vehicle.

For explorers using an Explorer Notebook:

1. Use your Explorer Notebook to draft a sketch of your TinkerCAD creation. Check out the last page for a page design idea. You can use this or set up your page however you want!

Resources:

1. Take a [virtual tour](#) of Boston Children's Museum - on the 3rd Floor, you'll notice there's an exhibit called "Construction Zone."

Extensions:

The following are optional steps you can take if you want to extend this adventure:

1. Try to make other things in TinkerCAD - here are a few suggestions:
 - a. A room
 - b. A home
 - c. A neighborhood
 - d. A school
2. With the help of a grown-up - you can find nearby libraries or makerspaces that will use 3D Printers to turn your creation into something you can hold!
3. Go to the "In the Construction Zone" topic on Flipgrid and share your creation!

Explorer Notebook

You can use this to help you set up your Explorer Notebook!

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My Vehicle:

A large, empty rectangular box with a black border, intended for a student to draw or describe their vehicle. The box is positioned below the 'My Vehicle:' label and occupies most of the lower half of the page.