

Design A Parade With LEGO® Education SPIKE™ Essential!

Have you ever been to a parade? A parade is a procession, or a group of people moving together, which often celebrates a holiday, cultural event, or other special occasion. Many parades include balloons, costumes, bands, and floats.

HERE'S YOUR CHALLENGE

Make your own parade float with SPIKE Essential and add LEGO® pieces or other materials to decorate it.



01/05 Prepare

Before you start building, consider the following:

- Have you ever seen a parade?
- What kind of floats, balloons, or decorations have you seen in a parade?
- Will your parade celebrate a certain theme, holiday, or event?
- If you are working in a group or class, how can you collaborate to ensure your parade is successful?

In this lesson, you will use the LEGO® Education SPIKE™ Essential set. Build the [Taxi! Taxi!](#) model as the base for your float. Alternatively, you may select a model of your choice that can move forward and backward or be creative and develop your own model as your parade float.

02/05 Plan

Before you start creating, determine what materials you have available and how you might use them:

- Will you create the taxi as the base for your model?
- What other materials will you need to decorate your parade float? Consider what is available to you. (e.g. cardboard, foam, glitter, string, etc.)
- Consider making a sketch or drawing of your float and label the materials and elements you plan to add to the base structure.
- How will you safely attach your parade decorations to the float without causing any damage to your model?
- What is the parade route and how will you code your float to move in the correct path?
- If you are working as a class, have you determined the order of floats?

VOCABULARY

Parade

Code

Route

Motor

03/05 Create

Start by building the model you selected. Create the structure and decorations for your parade float. Attach the decorations to your model and make sure it can move properly. Code your float to move along the correct parade route making stops and turns at the correct locations.

04/05 Test

Run your program and make sure the float successfully traveled through the correct parade route you designated. If not, iterate or make changes to your code to make the correct turns. Also, consider ways to enhance your program. Could you add cool celebratory music, or a spin move to show off the float at a specific location?



Run your program and make sure the float successfully traveled through the correct parade route you designated.



05/05 Share

Now it's time to celebrate and share your parade with the community. Get your float to the starting point or line up all floats in your class. Share with spectators - show off your parade to another class, a friend, or a family member.



Bonus Ideas

Looking to extend your learning?

- Ready to expand your parade? Create a whole town celebration by including carnival games and amusement park rides. Connect more lessons from the [Crazy Carnival Games](#) and the [Amazing Amusement Park](#) units to enhance your parade route and add to the excitement!
- Incorporate math concepts into your parade route. Check out the extensions section from the [Taxi! Taxi!](#) lesson plan. Identify the shape made by the parade float path and investigate the perimeter of the shape.