

# Escape the Rain

## Engineering Design Process

- Identify or Define the Problem
- Generate Ideas
- Identify Best Idea Based on Constraints
- Design and Build a Prototype
- Evaluate Tests
- Iterate and Redesign
- Explain Results

## Need Inspiration?

Explore the LEGO® Education SPIKE™ Prime [Rain or shine?](#) lesson. Think about a rain-repelling invention you can create or how we can create a way to display a weather forecast using qualitative cloud data.

Explore the LEGO® Education SPIKE™ Essential [Protect the Environment](#) lesson. Think about how you can care for the environment in your community.

Design your own invention using LEGO® bricks or whatever materials you have available to you.

## Challenge

April showers bring May flowers! Springtime can be a rainy season. April is also the month we celebrate National Robotics Week. **So, can you design a solution to escape the rain or invent a rain-repelling robot?**

With support from your teacher, research ways that engineers have developed solutions to help us stay dry or divert rain.

Be creative and develop your own rain-repelling solution. Iterate and test, then improve your design. Share your invention with your peers to get constructive feedback. (Remember we are imagining rain in this scenario. Please don't get your LEGO® Education SPIKE™ set wet!)

**Use each step of the Engineering Design Process to complete this challenge.**

