

# BBTB 2020 SPIKE Prime® Review and Programming

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Catalog Description:

## **SPIKE Prime® Review and Programming**

Intermediate Level 2, 10 - 15 yrs., grades 4-8 suggested

Kit cost \$330, Class time 1.5 hours

Using the newest technology available from LEGO® Education, students will gain experience with LEGO® Education SPIKE™ Prime the go-to STEAM learning tool for students. Combining colorful, new LEGO building elements, easy-to-use hardware and intuitive drag-and-drop coding software based on Scratch, SPIKE Prime will engage students through playful learning to think critically and solve complex problems, regardless of their learning level.

Join our exciting session with a preview of the kit, learn about the new parts and Easter eggs. We selected "Rain or Shine", an easy-entry project, for our super fun coding experience. We will use our prebuilt models and program them to interact with the weather. With special quest presenters: Ice Cream Robotics Club.

Purchase set: <https://education.lego.com/en-us/products/lego-education-spike-prime-set/45678#product>

Download free software: [SPIKE Prime](#) | [Student App Download](#) | [LEGO® Education](#)



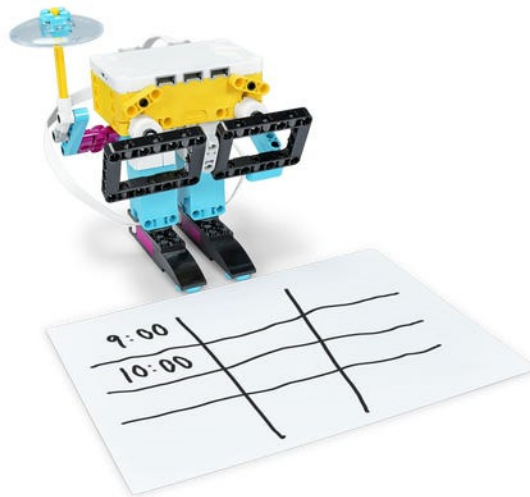
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Student Worksheet:

## Rain or shine?

What will the weather be like today?



Weather forecasts use data to make predictions.  
How reliable do you think this data is?

**Build this Weathercaster.**



Let's see how good it is at predicting today's weather!  
If you have time, build your own design.

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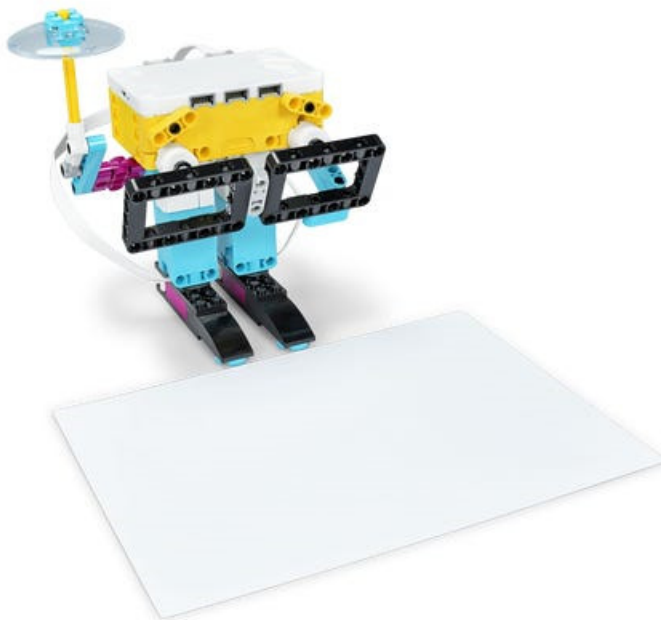
**Check the conditions: is it sunny?**



Let's see!

Set the location to your city and see what happens if it's sunny.

**What's the forecast for the next 5 hours?**



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Create a program so the Weathercaster can describe the weather for the next 5 hours.

Record the Weathercaster's prediction in a table.

### **Check the forecast in other cities.**



Record the forecast for at least 2 other cities.

During the next 5 hours, record the actual weather in your table and compare the forecast data with the actual data.

### **How did you do?**



Take a moment to evaluate yourself.

Congratulations... you've just life hacked the forecast!