Thank you for joining us for the first in our webinar series, Getting Started with LEGO® Learning System, *Prepare to Teach with SPIKE™ Prime*.

Whether you joined us live or watched a recording of the webinar, we want to make sure you have access to the resources that were shared and to see responses to questions that were asked.

Webinar Resources

LEGO® Education Home Page
https://education.lego.com/en-us/
Support for LEGO Education products
https://education.lego.com/en-us/support
Resources for LEGO Education Product Overviews and Guides
https://education.lego.com/en-us/teacher-resources/lego-learning-system
Set up your LEGO Education Solutions
https://education.lego.com/en-us/start

Download SPIKE™ App
https://education.lego.com/en-us/downloads/spike-app/software
https://spike.legoeducation.com/

Find more about Professional Development
https://education.lego.com/en-us/professional-development

Sign up for the LEGO® Education Customer Success Program
https://community.legoeducation.com/customer-success

Professional Development Modules

We do have free, product-specific Professional Development modules that we will explore in our future webinars. Within those resources are short video segments addressing content similar to what we covered in the August 11 webinar:

https://pd.legoeducation.com/learn/course/115/play/620/overview-requirements-for-materials-tutorial

To access these tutorials, you will need to create a LEGO ID, which is free and provides you access to online PD and Community Content.

Questions from the Sessions

- Is there any way that we can order more labels for the kits?
    - For all replacement parts: https://www.lego.com/en-us/service/replacementparts
    - Order Management suggests calling to order more stickers: 1-800-835-4386
- What is the difference between SPIKE Prime set and the SPIKE Prime Expansion kit?
    - The SPIKE Prime Expansion kit is an add-on that offers more pieces and is ideal for advanced users and competition teams. The SPIKE Prime set has everything you need for your classroom to get started.
- What is the difference between the downloadable SPIKE™ App and the Web App?
    - There are a couple of key differences between the downloadable app and the web app.
        - The downloadable app will also need to have Unit and Lesson Plans downloaded separately.
        - The downloadable app will automatically save works in progress.
        - With the downloadable app, hubs will connect via USB or Bluetooth for both SPIKE Prime and SPIKE Essential.
        - The web app has Unit and Lesson plans embedded.
        - The web app will not automatically save work; however, work can be downloaded and saved to a device or cloud.
        - With the web app, SPIKE Prime hub connection is ONLY USB; SPIKE™ Essential will connect via USB or Bluetooth.
- Is the Web App reliable for a classroom setting?
    - Absolutely! Please see notes above for details about the differences between the downloaded and web-based apps.
    - For more information and details about the Web App, visit these two resources:
        - https://community.legoeducation.com/blogs/36/196
        - https://community.legoeducation.com/blogs/36/197
- Does the Web App connect via Bluetooth on a Chromebook?
    - Bluetooth connection for the Web App on Chromebooks is currently only available for SPIKE Essential. You cannot connect SPIKE Prime via Bluetooth on the Web App at this time.

- Are the same options and menu items available on the Web App as the downloadable version?
  - Yes! The Web App mirrors the menu options from the downloadable version.
- Do students need previous experience with Scratch to use SPIKE Essential or Prime?
  - Students and teachers new to Scratch will find great success coding with SPIKE Essential. The lessons provide targeted scaffolding, modeling step-by-step processes for new users and limiting the number of functions from which to choose. Students and teachers more familiar with coding can open the programming canvas with all available icon blocks, or they can increase the challenge by switching to word block coding.
- I have brand new teachers to Computer Science who have never used SPIKE Prime. Where should they start after opening the box?
  - Once the resource is unboxed and the hub activated, teachers should open the SPIKE App, select the resource (SPIKE Essential or SPIKE Prime), and select the Start button. The embedded tutorials, great for teachers or students, will familiarize users with resource functions and capabilities.
- How do you charge a Hub?
  - Each hub comes with a dedicated micro-USB charge cable that can be plugged into a device or a power source.
- How do you turn the Hub off?
  - Hold the power button until the Hub powers down.
- Are there digital copies of the tray cover sheet available to download and print?
  - A printable copy is not available but there are a few options for classroom use:
    - Print an Element Overview sheet, which can be downloaded from Teach-->Product Resources Library--> [your SPIKE product] --> Element Overview
      - SPIKE Essential Support | Everything You Need | LEGO® Education
      - SPIKE Prime Support | Everything You Need | LEGO® Education
    - Copy, print, and laminate the copy card

- How many builds come in the kit?
  - With SPIKE Essential, there are 40 lessons; with SPIKE Prime, there are 29 lessons. Both resources provide open-ended challenges for students to generate multiple novel solutions. Our Community members also have fantastic ideas for new builds, and our Professional Learning can help teachers reframe lesson builds as starting points, as opposed to completed activities.
- How can you use SPIKE in a classroom built around EV3?
  - Great question! If you are using the EV3 Classroom app that uses word blocks (based on Scratch blocks), it looks very similar to the programming language used in the SPIKE app (also based on Scratch blocks). You could give students a SPIKE Prime set for an open challenge if you would like for them to explore different hardware. Also, it is easy to program the SPIKE Prime set with Python—that might be a great challenge for students who want to explore programming with python.

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YouTube: https://www.youtube.com/user/LEGOeducationUS