**Studica Robotics**

**Blue Balancer Basic Programming Tutorial**
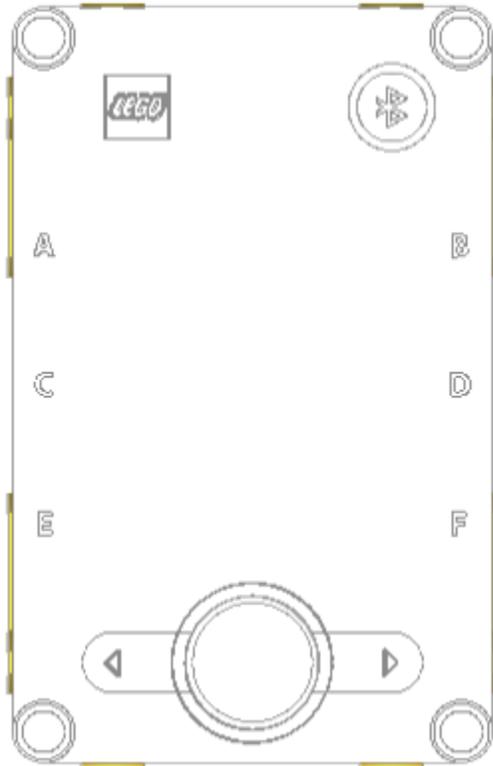


This document will help you set up the Blue Balancer with a few sample programs. Make sure your Spike Prime hub is charged and updated with the latest version of the Spike Prime App.

Note:

Before Programming the Blue Balancer Robot, the electrical motors and sensors must be connected in the correct corresponding port on the LEGO Spike Prime Hub. The correct corresponding ports  are given alongside the sample programs in the following pages.

Application Setup:

On the Spike Prime App, Get Started with the Spike Prime Homepage.
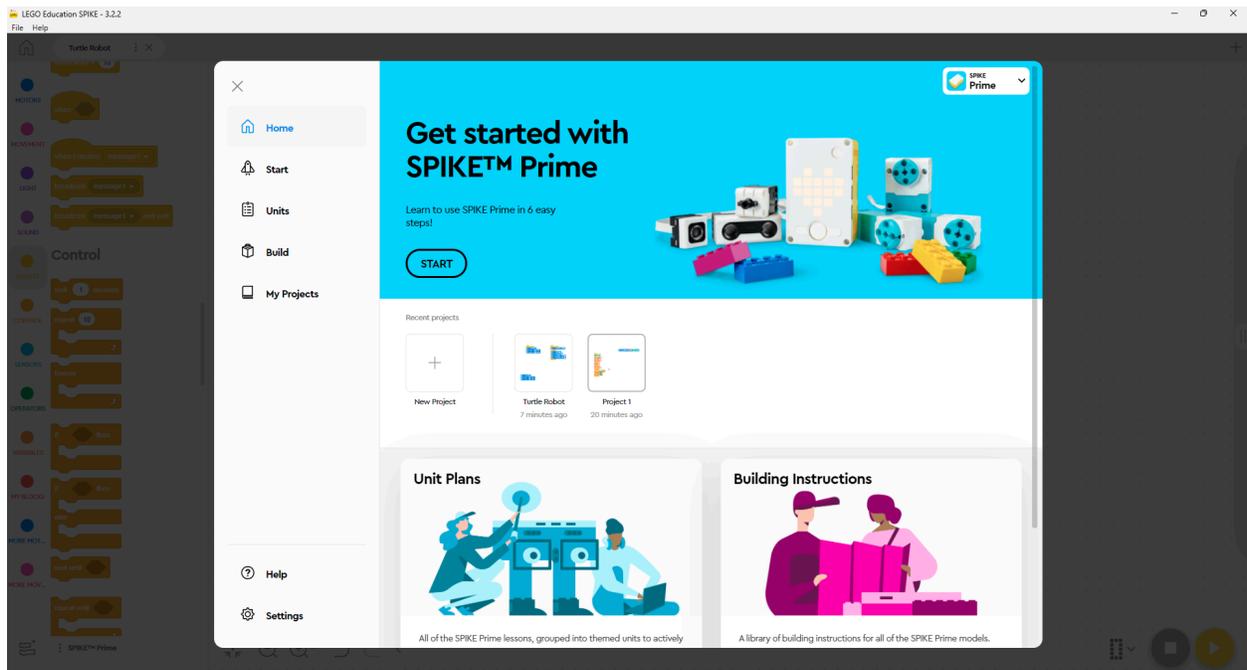


Choose Word Blocks for Programming the Test Samples.
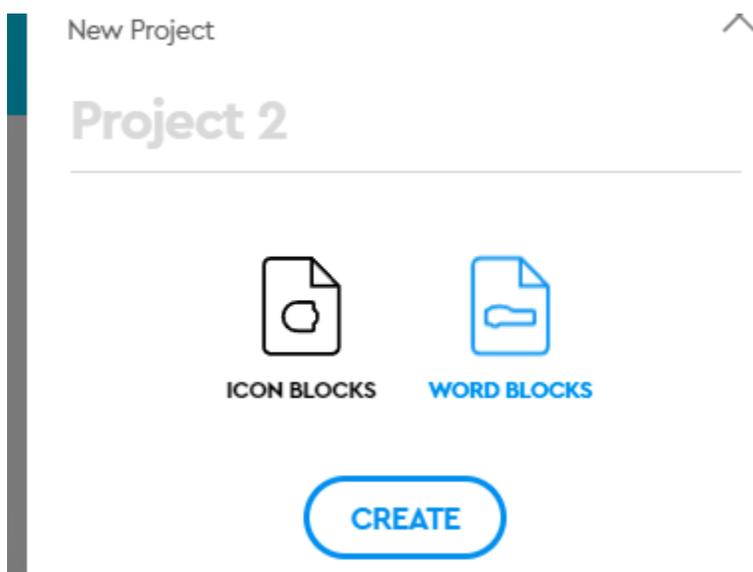
Click on Show Blocks for Spike Prime.

VARIABLES

MY BLOCKS

if ⬡ then

Show blocks from

**SPIKE™ Prime**

SPIKE™ Essential

All Products

MORE MOT...

MORE MOV...

⠿ SPIKE™ Prime
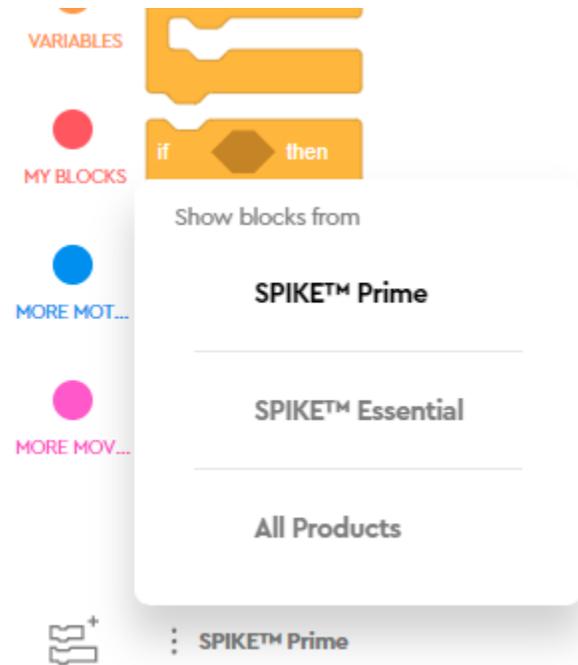
Turn on More Motors and Movement Extensions by clicking on this menu:
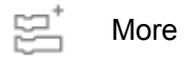
More
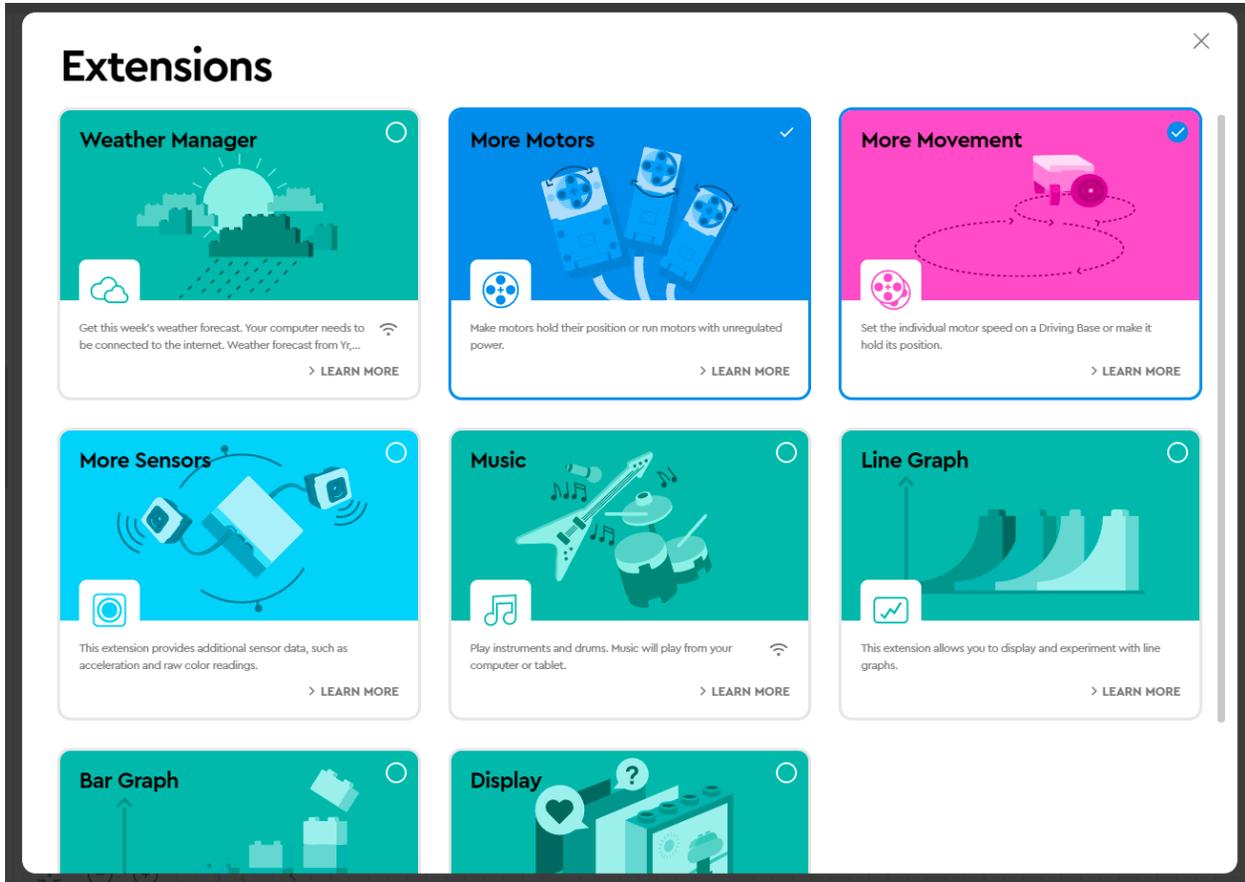
Now you have completed the application setup!

The following will be a few sample programs in which you get the Blue Balancer Robot running with:

Drive:
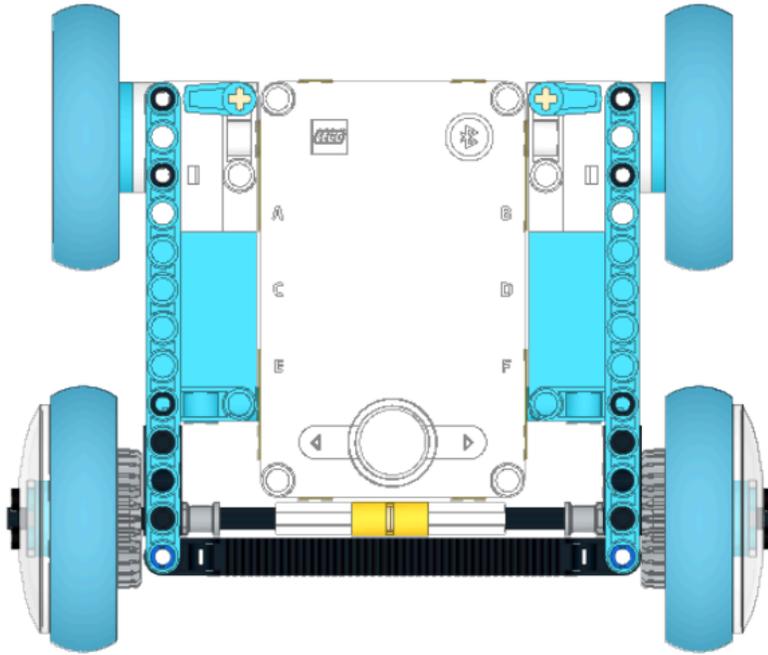


Connect 2 to Port A and Port B

Simple Drive Test Program:

when program starts

A ▾ set speed to 100 %

B ▾ set speed to 100 %

set movement motors to A+B ▾

move ↑ ▾ for 1 rotations ▾

move ↓ ▾ for 1 rotations ▾
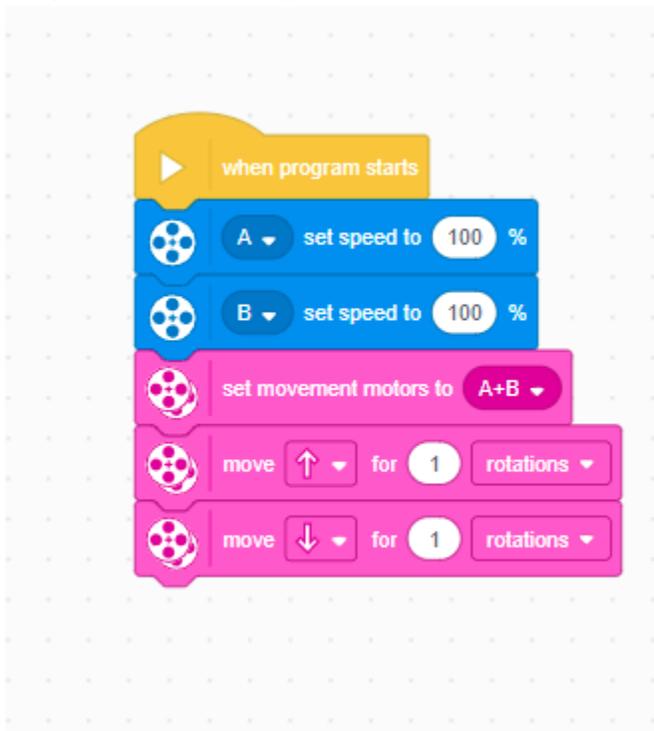
Steering:

Simple Steering Test Program: