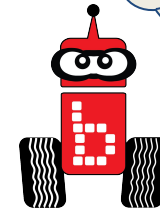


KIPR Robot Controller “Wallaby” Overview

- **Goals**
 - Learn and identify parts of the KIPR Wallaby Controller.
- **Pacing**
 - 45 minutes
- **This is an unplugged unit** (no computer needed)

Table of Contents



Click on me to return
to Table of Contents

[Charging the Wallaby Controller Safety- Activity 1](#)

[Know your Robot Controller Activity 2](#)

Resources

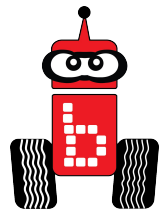
[-KIPR Wallaby Diagram](#)

[-Get to Know Your KIPR Wallaby](#)

[In-Out Circle Strategy Circle](#)

[Assessments and Rubrics](#)

KIPR Wallaby Overview



Goals

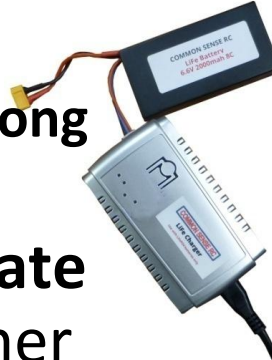
- Students will be able to identify all of the ports on the Wallaby controller and what they are used for
- Students will be able to identify the buttons and their use
- Students will understand the proper charging procedure (only an adult, only under supervision at all times, not around water or flammable materials)

Standards:

COMING SOON!

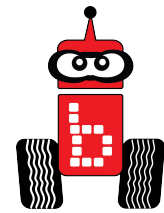
Charging the Controller's Battery

- For charging the controller's battery, **use only the power supply which came with your controller.**
 - It is possible to damage the battery from using the wrong charger or from too deep a discharge!
- The standard power pack is a **lithium iron phosphate (LiFe) battery**, a safer alternative to lithium polymer batteries. The safety rules applicable for re-charging any battery still apply:
 - Do **NOT** leave the battery unattended while charging.
 - Turn the Wallaby off or unplug it from the battery while charging.
 - Charge in a cool, open area away from flammable materials.



Know Your Robot Controller

Activity 2

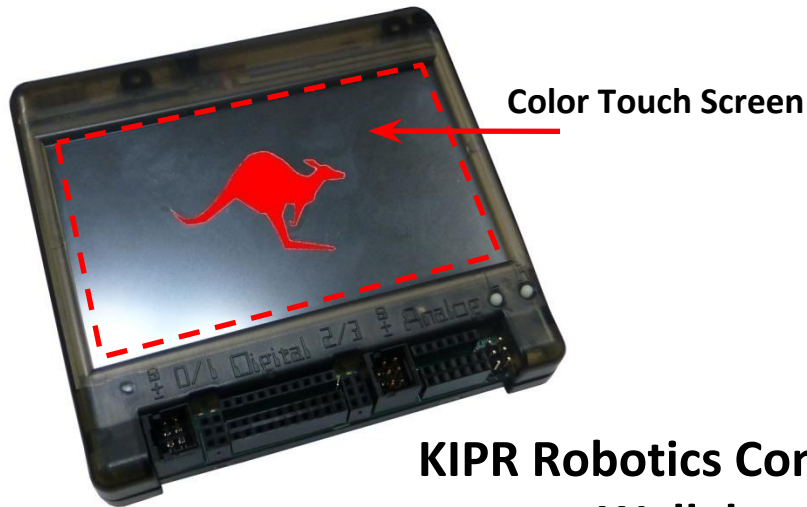


Materials:

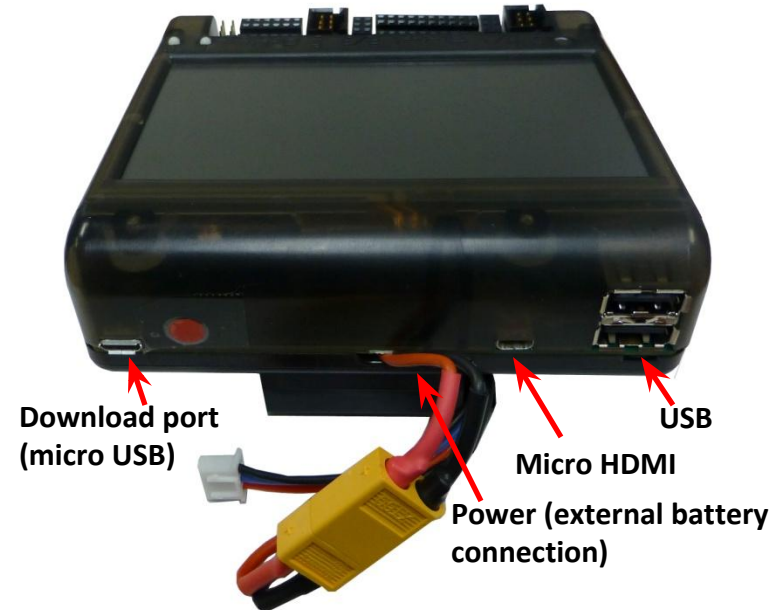
KIPR Wallaby, [KIPR Wallaby diagram](#), and printed or digital copy of [“Getting to know your KIPR Wallaby”](#) activity

1. Have students compare their Wallaby to the [KIPR Wallaby diagram](#).
2. Look at your Wallaby and identify the parts of the Wallaby Controller and their proper use by matching the two columns on [Get to Know Your KIPR Wallaby](#)
3. Students share findings with each other using an [In-Out Circle](#).

Controller Guide



KIPR Robotics Controller Wallaby



2 Servo Motor Ports (Port # 0 & 1)

2 Motor Ports (Port # 0 & 1)

10 Digital Sensor Ports (Port # 0 - 9)

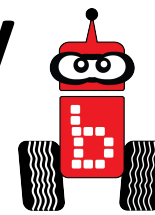
2 Motor Ports (Port # 2 & 3)

2 Servo Motor Ports (Port # 2 & 3)

6 Analog Sensor Ports (Port # 0 - 5)



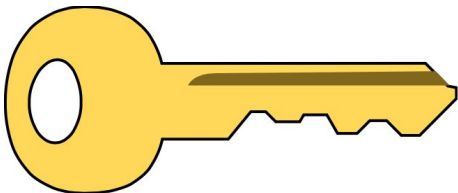
Get to Know Your KIPR Wallaby



Letter in front of Item



A	HDMI Port		Where you plug in SERVO motors
B	Right & Left Button		Where you plug in motors
C	USB		Where you plug in digital sensors
D	Micro-USB		Where you plug in analog sensors
E	Power cord		Where you can interact with the controller
F	Power Switch		Used to turn the Link on and off
G	Servo Ports		Used to download programs from the computer to the link
H	Motor Ports		Used to connect to a display
I	Analog Sensor Ports		Used to charge the Link FOLLOW PROPER PROCEDURES
J	Digital Sensor Ports		Used for human input (used in programming)
K	Color Touch Screen		Used for flash drives, keyboards, mouse



Click Key for answers

Assessments and Rubrics



Suggestions: *Understanding* rubric and or
Group Collaboration