



Overview of Units

Start Here!

Units

****Great unit to start with every year**

01 Robot Introduction- Learn and identify robots in our everyday lives (unplugged unit).

02 Be the Robot- Learn and identify pre-thinking and planning the logic of providing directions to the “robot”(unplugged unit).**

03 Kit Overview-Learn and identify robot parts and uses (unplugged unit).

04 KIPR Wallaby Overview-Learn and identify parts of the KIPR Wallaby Controller.**

[\(Important Charging Information everyone needs to read!\)](#)

05 Introduction to Programming Language-Understand that computers use programming languages and identify their parts (unplugged unit).

Units continued

06 Writing Your First Program-Students will learn about the C program language, functions `printf ()`, `msleep ()`, debugging, and connection failed.

07 Moving Your Robot using the motor () function-Students will learn how to program their robots to be able to move using the motor function.

08 Engineering and Bulldozing-Learn to apply the engineering design process.

09 Using Servos-Students will familiarize themselves with servo motors and how to control them.

10 Using Sensors-Understand and apply the concepts of using digital and analog sensors.

11 Creating Your Own Functions-Understand how to write and use your own functions.

Units continued

12 Variables- Students will learn how to name, set and use variables.

13 Functions with Arguments- Students will learn how to use functions with arguments.

14 Using Cameras- Understand and use the camera.

15 Motor Position Counter- Students will familiarize themselves with motor rotations and ticks for precision distance driving.