Arts & Bots Hardware Component Quick Reference

LIGHTS					
Name and Image	What does it do?	Plug it in	lcon		
LED	It is a single color light source with controllable brightness.	Color $\rightarrow +$ (Positive) Black $\rightarrow -$ (Ground) The colored wire of the LED indicates the color of its light!	鈌		
Tri-Color LED	It is a red-green-blue (RGB) light source which can produce many light-based colors.	Red → R (Red) Green → G (Green) Blue → B (Blue) Black → - (Ground)	袋		

MOTORS					
Name and Image	What does it do?	Plug it in	lcon		
Servo	It is a limited range motor with controls for specific angular positions.	Yellow $\rightarrow \mathbf{S}$ (Signal) Red $\rightarrow \mathbf{+}$ (Positive) Black $\rightarrow \mathbf{-}$ (Ground)	(
Motor	It is an electric motor with speed control that can rotate in either direction indefinitely.	Yellow →	Ś		
Vibration Motor	It is a small motor that causes a shaking motion where you can control the intensity of shaking.	Yellow \rightarrow $+$ (Positive) and $-$ (Ground) Since both wires are the same color, the vibration motor can be plugged in two ways. Switching them just changes which direction the weight spins.	*		

SENSORS						
Name and Image	What does it do?	Plug it in	lcon			
Distance Sensor	It is a sensor that detects how far away something is.	All sensors are connected to the Hummingbird in the same way and can be used on any sensor port: $Yellow \rightarrow \mathbf{S} \text{ Signal}$ $Red \rightarrow \mathbf{+} \text{ Positive}$ $Black \rightarrow \mathbf{-} \text{ Ground}$	Ŀ			
Light Sensor	It is a sensor that detects how bright the ambient light is.					
Temperature Sensor	It is a sensor that detects the temperature.					
Potentiometer	It is a sensor that detects how it has been rotated.					
Sound Sensor	It is a sensor that detects how noisy its surroundings are.					