The code you write will be downloaded from the laptop to the Super Cricket board via the USB cable and Beamer. The Super Cricket is shown on the left. It has six sensor ports marked a through f, two bus ports, and four pairs of motor/light ports. The Cricket is powered by four AA batteries. The beamer on the right connects to the laptop via the USB cable. It beams your code to the Cricket board through the IR devices (see images below).

DC motors enable the robot to move. You can program the direction of motor rotation, the speed of rotation, and how long it rotates. Your robot will be able to beep, light up, or output four characters. The LCD display plugs into a bus port. The lights plug into motor ports.

Your robot interacts with the world using three sensors: IR distance sensor, snap switch and a photocell light sensor. Each plugs into a sensor port. The distance sensor returns a range of 0 – 255; 0 represents far and 255 represents close. The snap switch returns true for on and false for off. The light sensor returns a range from 0 – 255; 0 is bright and 255 is dark.