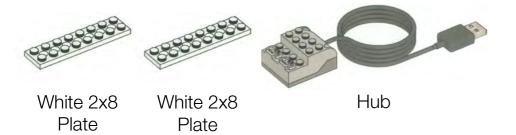
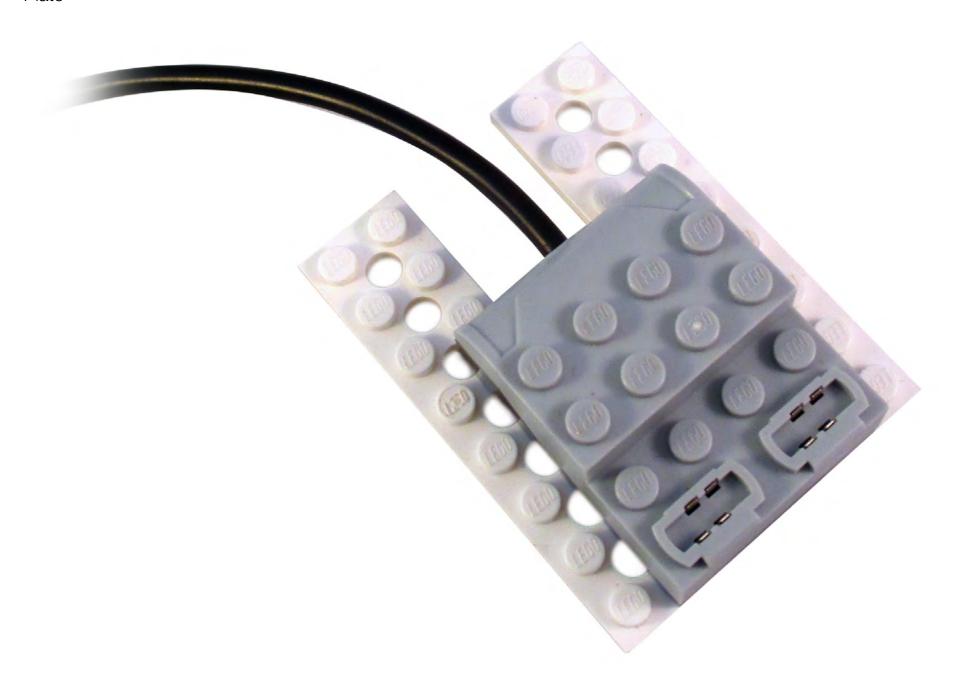


Power Drill

POWER UP!! Turn on the power drill using a Motion Sensor as a trigger. Control the power and speed by changing the distance of your finger from the trigger!







Red 1x2 with Hole



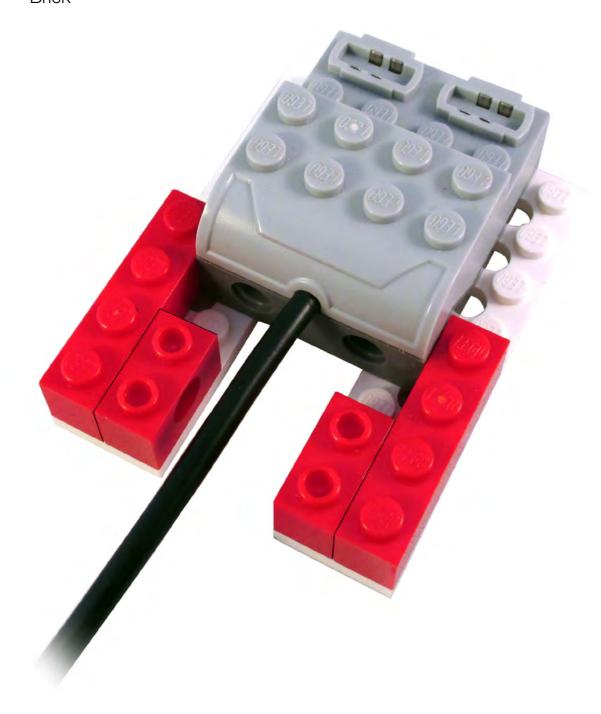
Red 1x2 with Hole



Red 1x4 Brick



Red 1x4 Brick









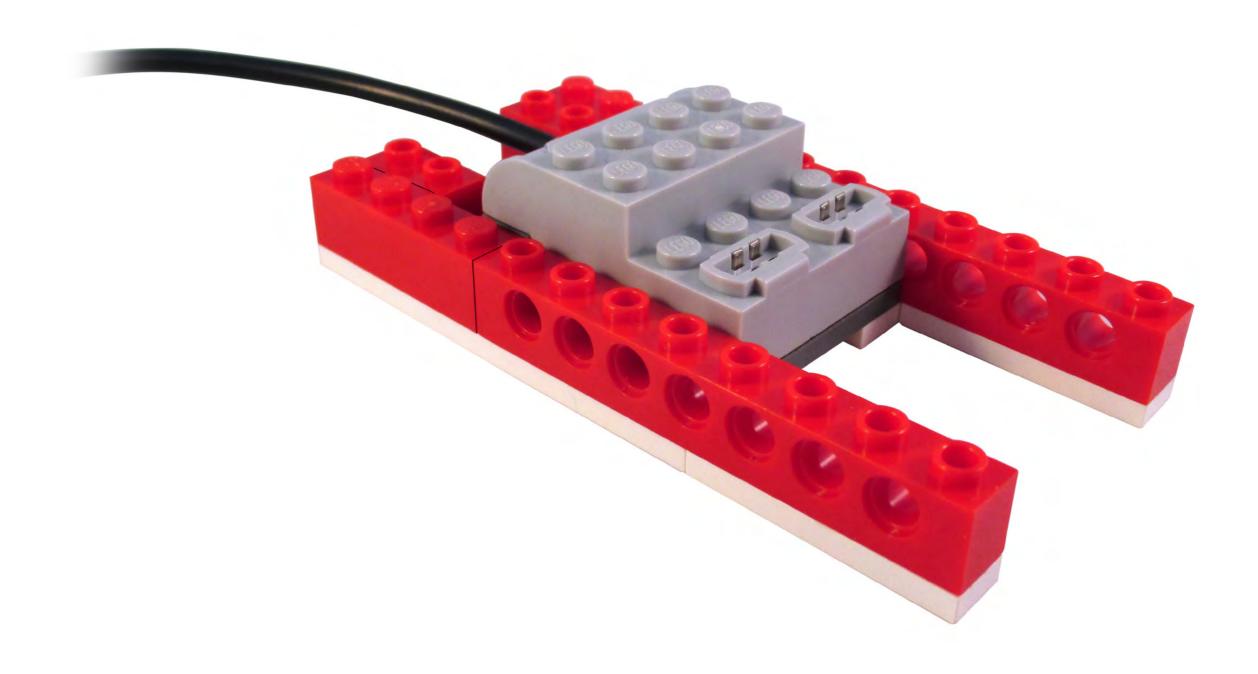
Red 1x8 with Hole



White 1x4 Plate



White 1x4 Plate





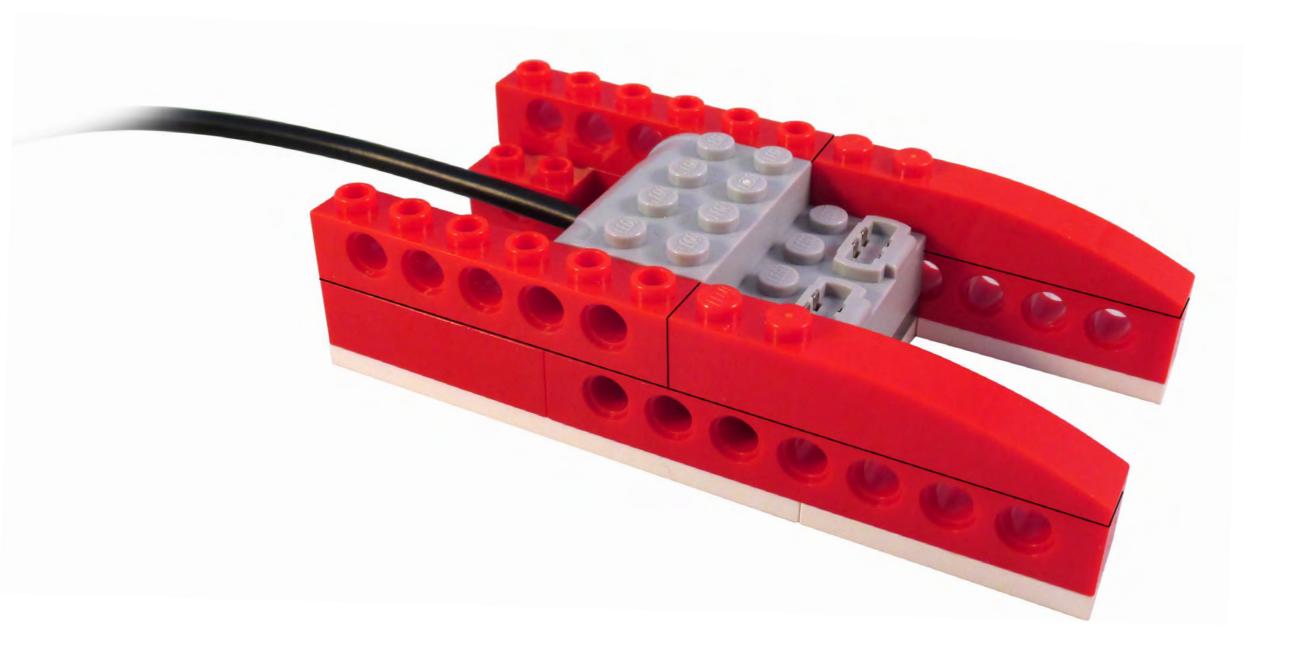






Red 1x6 Red 1x6 with Holes

Red Bow Red Bow

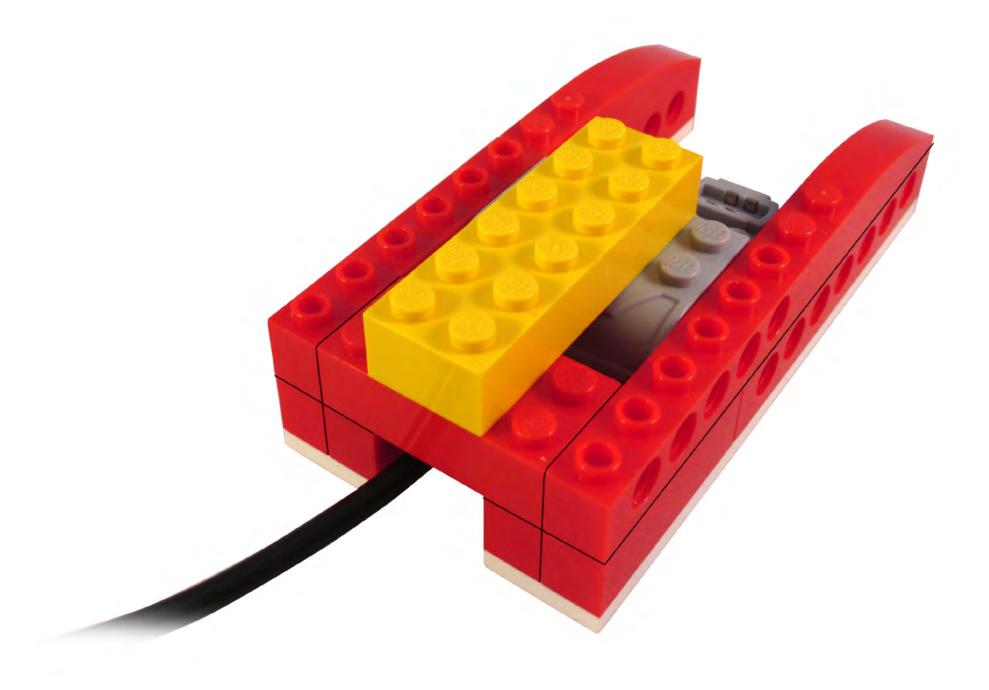


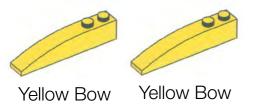


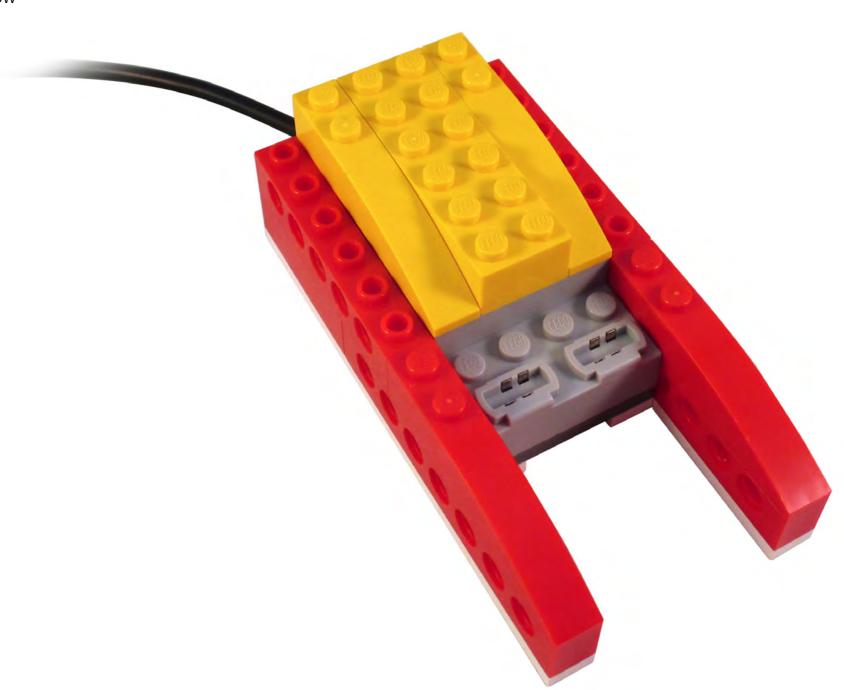




Yellow 2x6 Brick















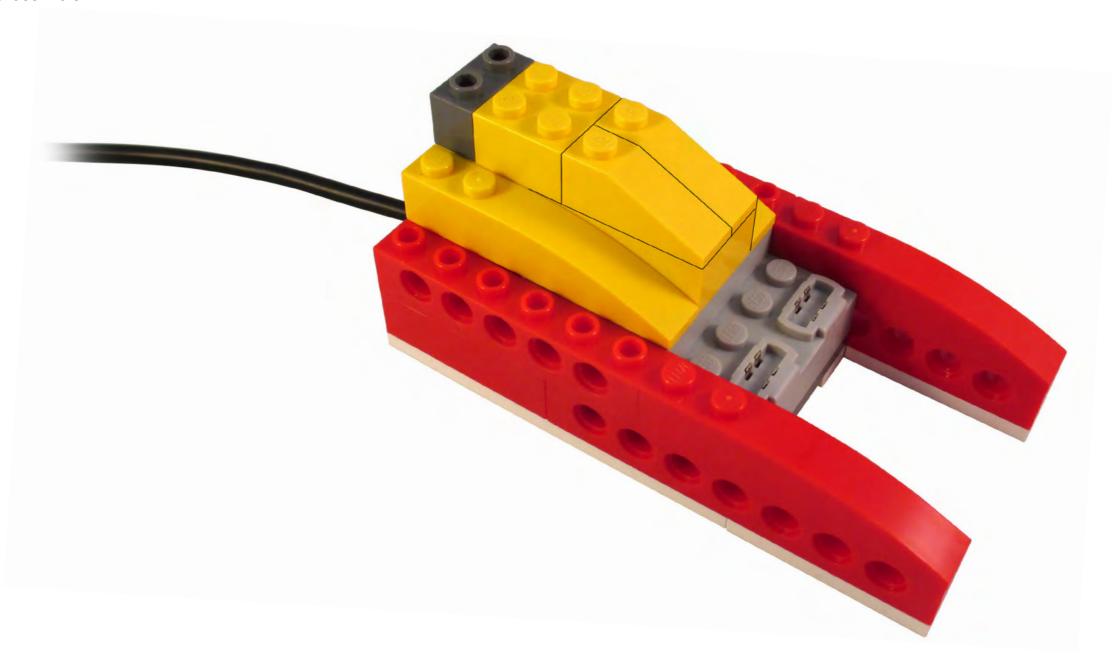


Grey 1x2 with Cross Hole

Yellow 2x2 Brick

Yellow 1x3 Wedge

Yellow 1x3 Wedge





Yellow 1x4 Brick



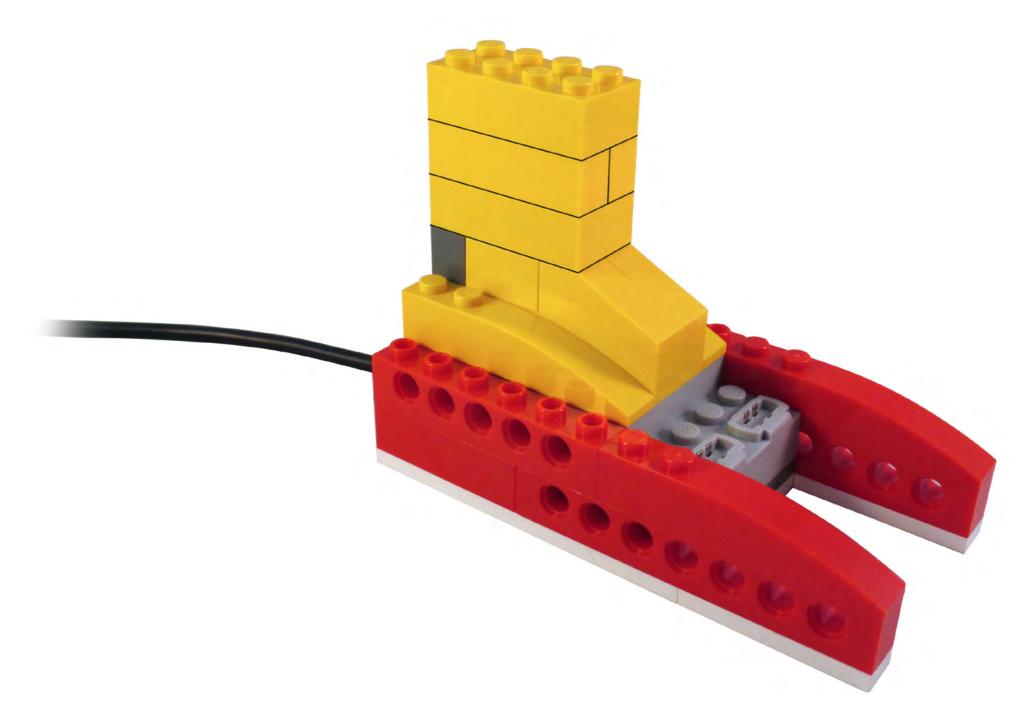
Yellow 1x4 Brick



Yellow 2x4 Brick



Yellow 2x4 Brick





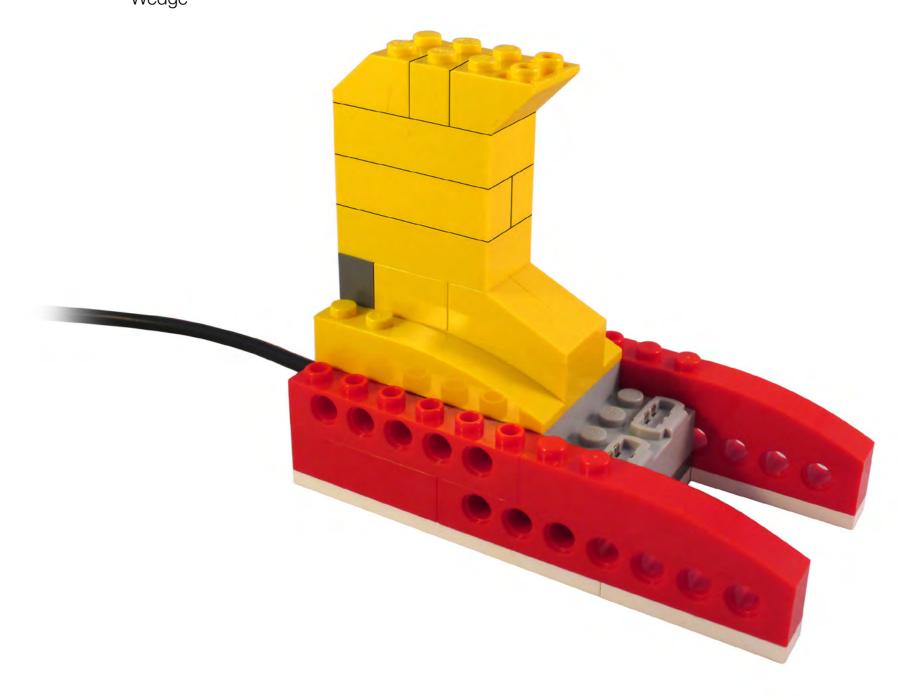
Yellow 1x2 Brick



Yellow 2x2 Wedge



Yellow 2x2 Inverted Wedge





Yellow 1x3 Inverted Wedge



Yellow 1x3 Inverted Wedge



Green 2x4 Plate



Grey 1x2 with Cross Hole



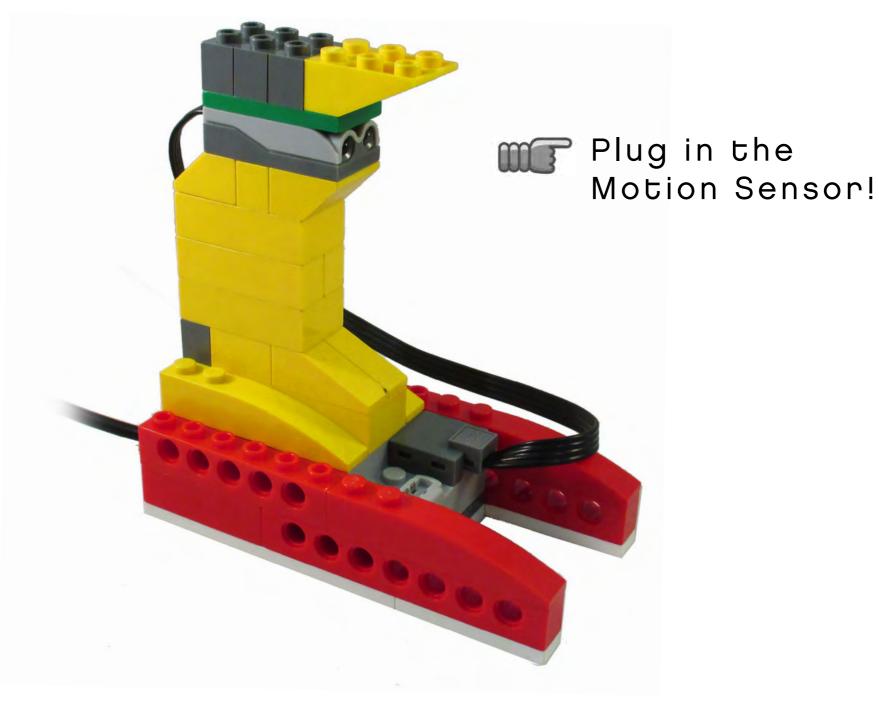
Grey 1x2 with Cross Hole



Grey 1x2 with Cross Hole



Motion Sensor





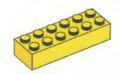
White 2x6 Plate



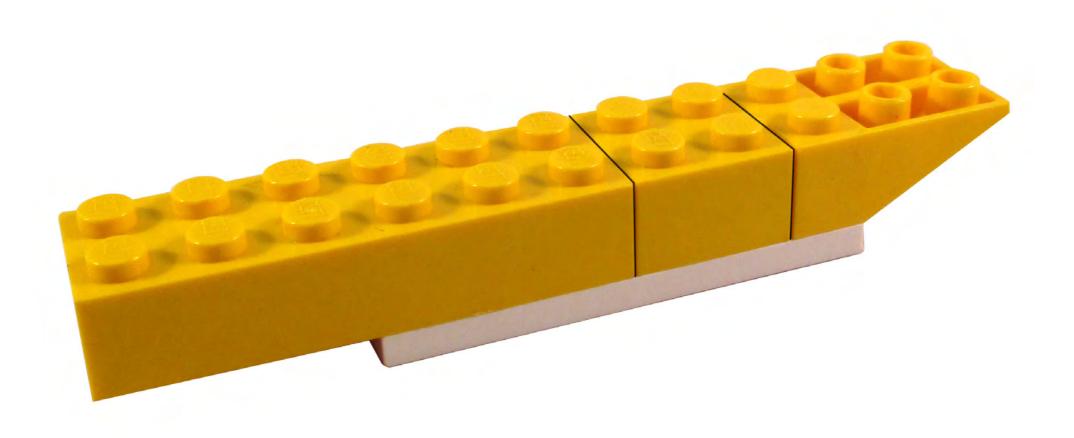
Yelow 2x2 Brick



Yellow 2x3 Inverted Wedge



Yellow 2x6 Brick









Yellow 2x3 Inverted Wedge



White 2x8 Plate





White 2x6 Plate



Red 1x2 with Hole



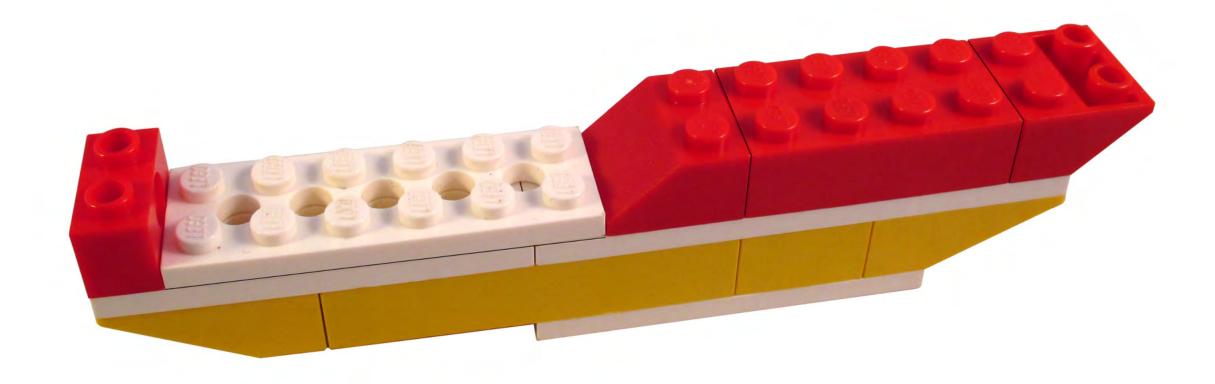
Red 2x2 Wedge

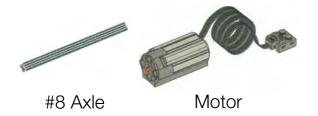


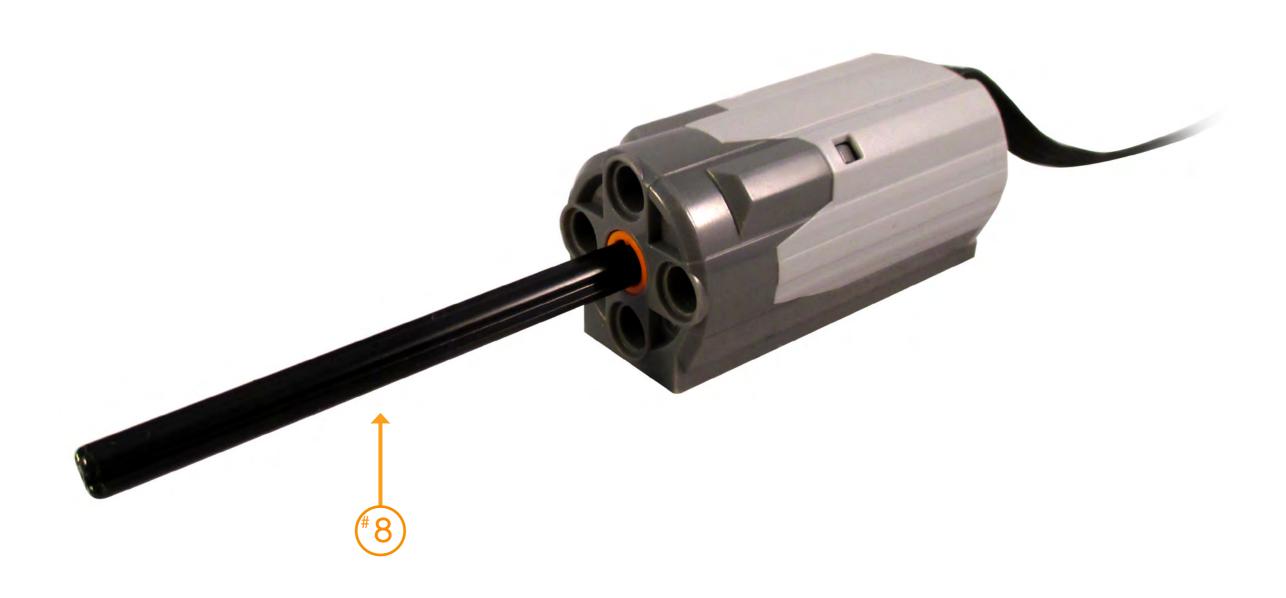
Red 2x4 Brick



Red 2x2 Inverted Wedge















Red 1x2 Brick

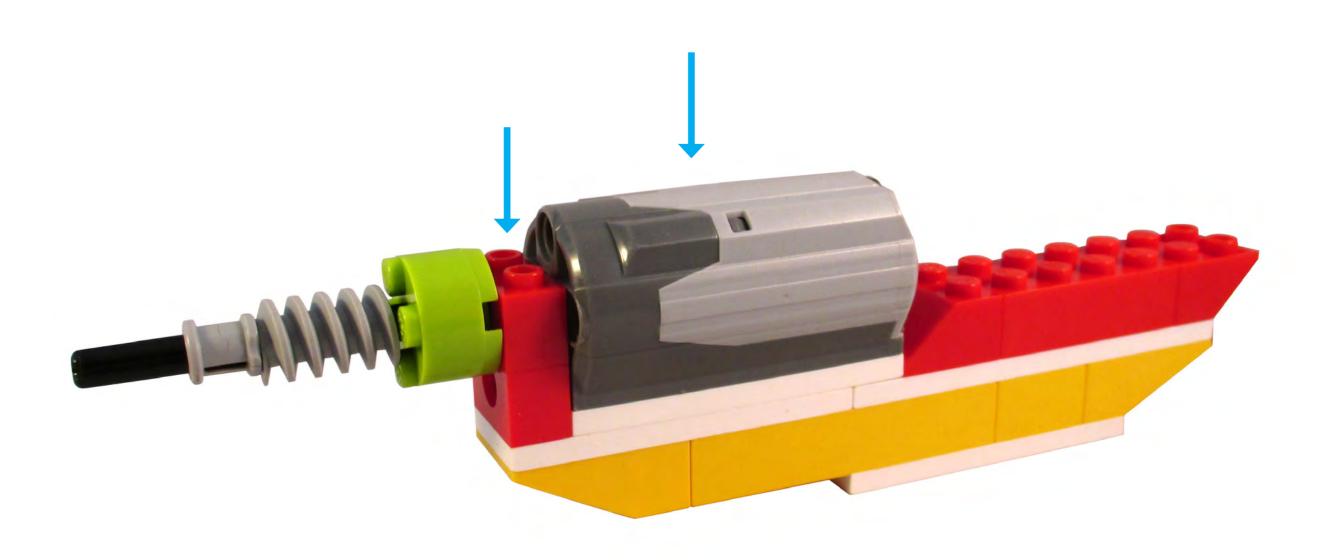
Green round Brick

Worm Gear

Bushing



Attach the Assembly!









Red 2x2 Inverted Wedge



Red 2x6 Brick





Red 1x2 with Hole



Red 2x2 Wedge



Red 2x2 Brick



Red 2x2 Brick



You will Need:



Plate





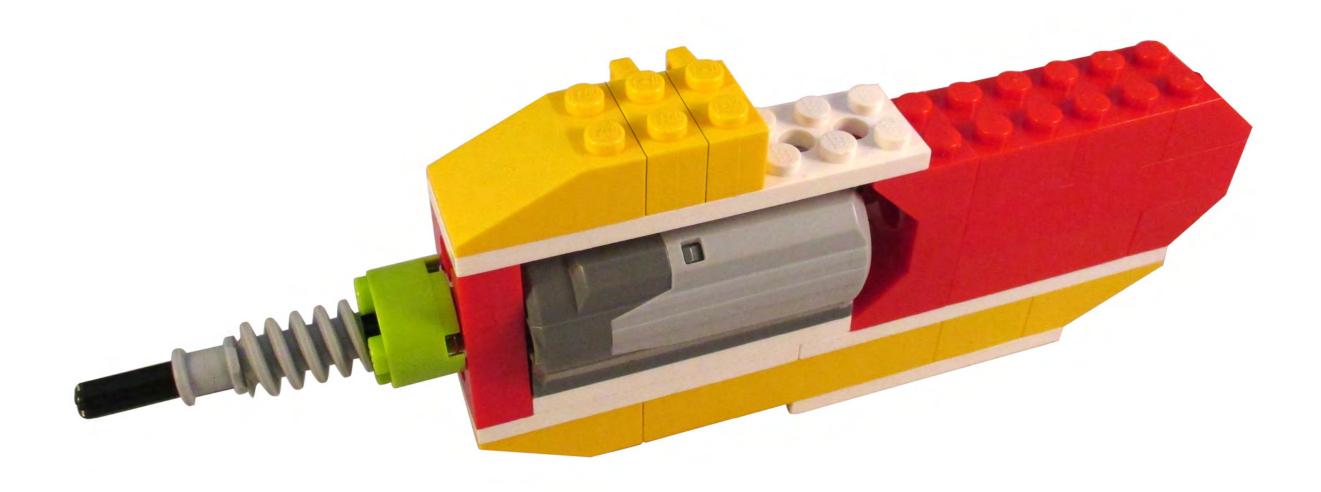
Yellow 1x2 with Stub



Yellow 1x2 with Stub

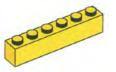


Yellow 2x3 edge









Yellow 1x6 Brick



Yellow 1x6 Brick



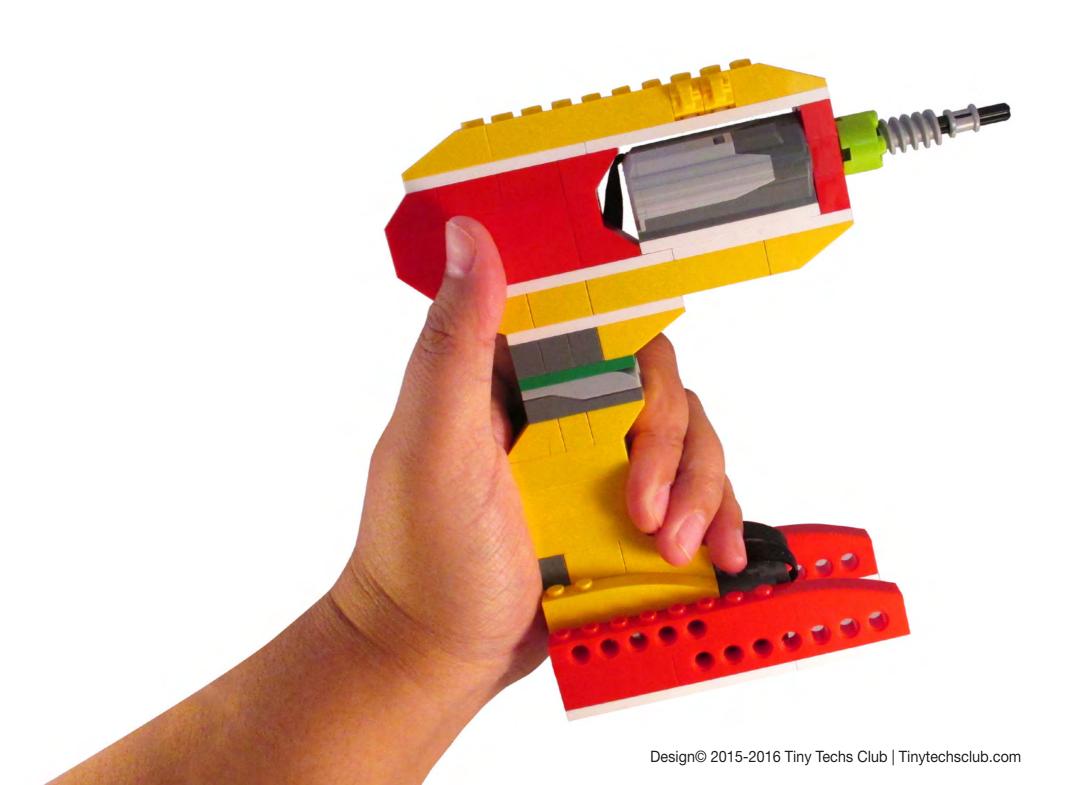
Yellow 2x3 Wedge



Attach the Assembly!



Your Power Drill is Built!... Time to Program it!



Programming

These programs use the Motion Sensor to turn on your motor at different Motor Powers.

High

Power

For 20

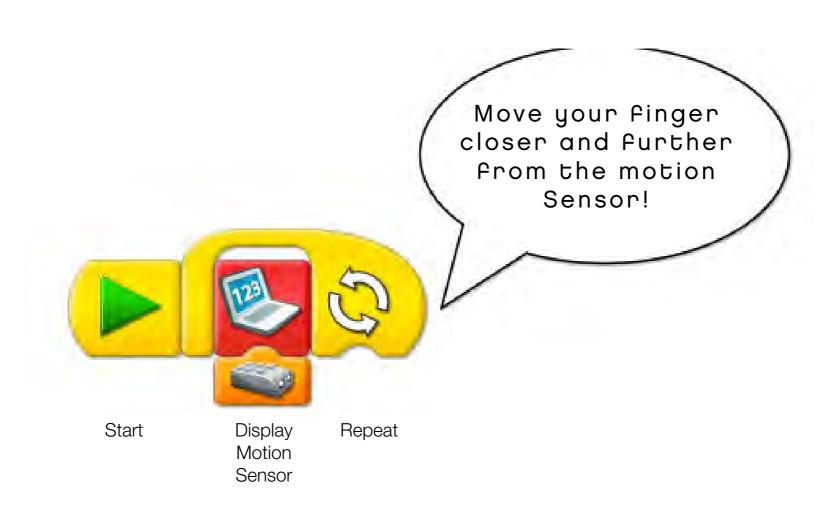
10



- 1. Minimize these instructions and open the LEGO® WeDe® software.
- 2. Program your robot with the program above.
- 3. If you finish, open the instructions and continue to the extension activities!

Extension 1

This program teaches you how the Motion Sensor detects distance. The display will change value as you move your finger closer and further from the Motion Sensor.



Extension 2

This program uses the value of the Display to control the Motor Power.

