

#4 Into Orbit - Drivetrain and Chassis Specification



1. Evaluate all the Launch Planning Sheets from the team to build a drivetrain and chassis to meet the requirements.
2. Draw a 2D model (or 3D model).

Output Ports:

A	B	C	D

Input Ports:

1	2	3	4

Chassis Size: EV3: 4.5" x 3" Large motor: 4.5" x 1.5" Medium motor: 3" x 1"	Width	Length:
	Height:	Clearance:
Movement/Turns:	<input type="checkbox"/> Forward Drive <input type="checkbox"/> Rear Drive Importance: <input type="checkbox"/> Straight <input type="checkbox"/> Turns	
	<input type="checkbox"/> Distance (speed) <input type="checkbox"/> Accuracy (slow)	
	Size of the driving wheels: Radius:	Width:
	Size of the castor wheels: Radius:	Width:
	Motor wheels Diameter:	Width:
Sensors: Color Sensor: 0.75" x 0.75" Ultrasonic Sensor: 2" x 1.75" x 1.25" Touch/Gyro Sensor: 0.75" x 0.75"	<input type="checkbox"/> Color Sensor - 1 or 2	<input type="checkbox"/> Gyro Sensor
	Location:	Location:
	<input type="checkbox"/> Ultrasonic Sensor	<input type="checkbox"/> Touch Sensor
Location:	Location:	Location:
Medium Motors:	Location:	Location:
	Attachments:	Attachments:
Large Motors:	Location:	Location:
	Attachments:	Attachments:
Walls:	Front: Width: _____ Height: _____ Attachments:	Right Side: Width: _____ Height: _____ Attachments:
	Back: Width: _____ Height: _____ Attachments:	Left Side: Width: _____ Height: _____ Attachments:

Attachment #1:	Name:
	Medium motor: _____ Large motor: _____ Passive: _____
	Length: _____ Width: _____ Height: _____
	Location:
Attachment #2:	Name:
	Medium motor: _____ Large motor: _____ Passive: _____
	Length: _____ Width: _____ Height: _____
	Location:
Attachment #3:	Name:
	Medium motor: _____ Large motor: _____ Passive: _____
	Length: _____ Width: _____ Height: _____
	Location:
Attachment #4:	Name:
	Medium motor: _____ Large motor: _____ Passive: _____
	Length: _____ Width: _____ Height: _____
	Location:
Attachment #5:	Name:
	Medium motor: _____ Large motor: _____ Passive: _____
	Length: _____ Width: _____ Height: _____
	Location:
Attachment #6:	Name:
	Medium motor: _____ Large motor: _____ Passive: _____
	Length: _____ Width: _____ Height: _____
	Location:

Note: