

LEGO WeDo Knowledge Organiser – Motors and Gears

	Key Learning
Lesson 1: Y3 - CS1, Y3 - CS2 (KPI) , Y3 - CS3, Y3 - CS5, Y3 - CS6, Y3 - CS7	What is LEGO WeDo?
Lesson 2: Y3 - CS1, Y3 - CS2 (KPI) , Y3 - CS3, Y3 - CS5, Y3 - CS6, Y3 - CS7	Programming Commands
Lesson 3: Y3 - CS1, Y3 - CS2 (KPI) , Y3 - CS3, Y3 - CS5, Y3 - CS6, Y3 - CS7	Building a Timed Barrier
Lesson 4: Y3 - CS1, Y3 - CS2 (KPI) , Y3 - CS3, Y3 - CS5, Y3 - CS6, Y3 - CS7	Reviewing and Evaluating my Creation
Lesson 5 & 6: Y3 - CS1, Y3 - CS2 (KPI) , Y3 - CS3, Y3 - CS5, Y3 - CS6, Y3 - CS7	Build and Program a moving vehicle

1:1



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4537292



x1



x2



x4



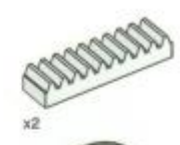
x1



x6



x2



x2



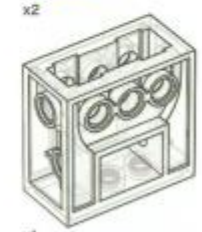
x2



x2



x2



x1



x1



x6



x2



x1



x4



x2



x1



x4



x2



x1



x1



x2



x1



x1



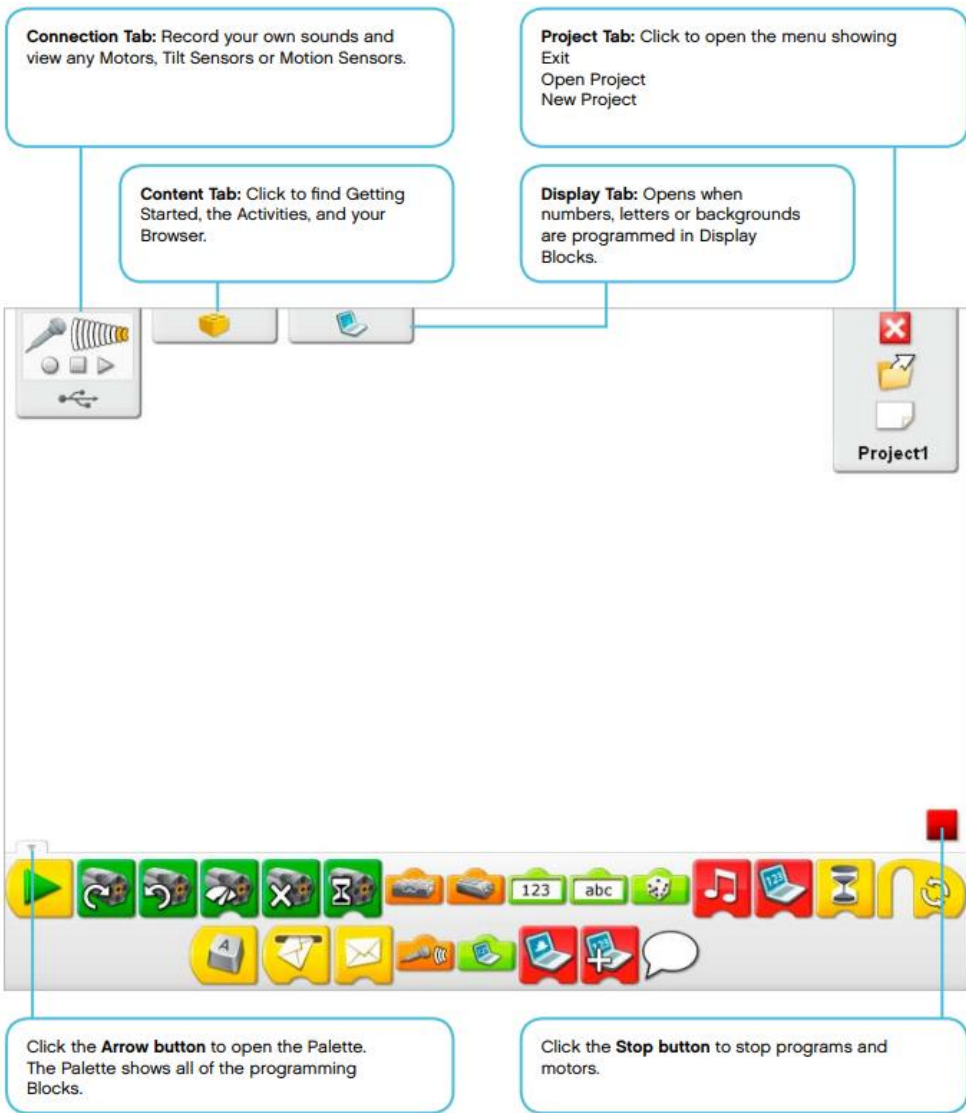
x1



x1



x1























Vocabulary List

- Connection Tab
- Content Tab
- Display Tab
- Project Tab
- Exit
- Open
- New
- Stop



Sound List

This list shows the type of sound that is made when you use the Play Sound Block with the Number Input shown. Click the Play Sound Block to hear the sound. See Getting Started 8. Crossed Belts for help recording your own sound.

 Hi	 Croak	 Kiss
1	2	3
 Magic	 Boing	 Bubbles
4	5	6
 Spin	 Splash	 Creak
7	8	9
 Thunder	 Cheer	 Whistle
10	11	12
 Zzz	 Roar	 Motor
13	14	15
 Clonk	 Crunch	 Flap
16	17	18
 Tweet	 Laser	
19	20	

Background List

This list shows the type of background picture that appears on the LEGO® Education WeDo™ Software Canvas when you use the Display Background Block with the Number Input shown.

 Sky	 Grass	 Sea
1	2	3
 Storm	 Forest	 Savanna
4	5	6
 Rock	 Reef	 Cave
7	8	9
 Mountain	 Space	 Polar
10	11	12
 Chalkboard	 Flowers	 Bubble
13	14	15
 Heart	 Boom	 Yell
16	17	18
 Happy	 Panic	
19	20	

Key Images

Vocabulary List	
	Start Block
	Start On Key Press Block
	Start On Message Block
	Motor This Way Block
	Motor That Way Block
	Motor Power Block
	Motor On For Block
	Motor Off Block
	Play Sound Block
	Display Block
	Add to Display Block
	Subtract from Display Block
	Multiply by Display Block
	Divide by Display Block
	Display Background Block
	Send Message Block
	Wait For Block
	Repeat Block
	Text Input
	Number Input
	Random Input
	Record Stop Play
	Motion Sensor Input
	Tilt Sensor Input
	Tilt Up
	Tilt Down
	Tilt This Way
	Tilt That Way
	Any Tilt
	Sound Sensor Input
	Display Input
	Bubble

Key Questions

What is LEGO WeDo?

LEGO WeDo is a simple robotics kit that allows you program commands in order to make your design move in a desired way.

How do I program using LEGO WeDo?

Use the icon blocks in sequence will allow you to create a series of instructions for your LEGO kit to follow. When you drag each icon, you should notice a grey outline next to the block you want to attach it to. This will allow the block to 'snap' into position.

What do gears do?

Gears transfer motion from one gear to another. You can use them to reverse the direction of rotation, or 'gear up' - increase the speed but decrease the torque (turning force), or 'gear down' - decrease the speed but increase the torque.