

# Harley Motorcycle

**Applicable Age Group** 6+

**Activity Objectives**

- ☑ Understand the origin of motorcycles and enhance safety awareness
- ☑ Master the structure of motorcycles and understand that motorcycles are transportation tools

**Activity Description**

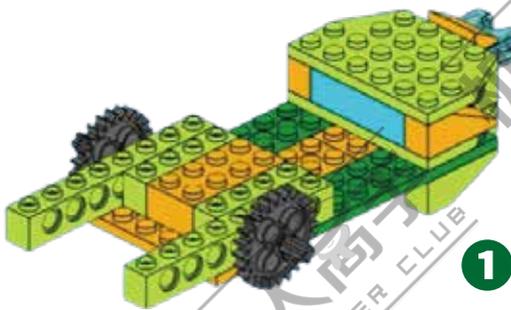
In this course, students will construct a motorcycle based on the gear transmission structure.

## STEAM Literacy Development Indicators

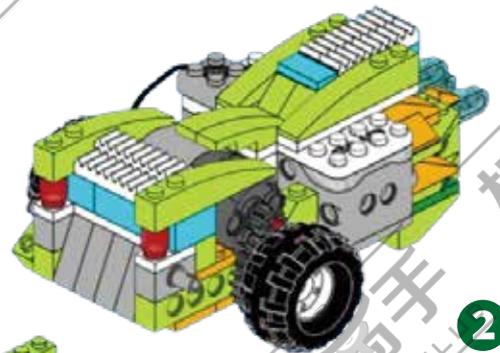
Method Indicator	Situation Introduction & Problem Analysis	Using Rack and Pinion to Construct	Testing Structural Stability and Smoothness	Understanding the Application of Rack and Pinion
Curiosity and Imagination	●			
Flexibility and Adaptability		●		
Verbal and Written Communication Skills				
Cross-boundary Cooperation and Exemplary Leadership				
Critical Thinking and Problem-solving Skills			●	
Proactive and Pioneering Spirit				●
Ability to Evaluate and Analyze Information				

## Building Block List

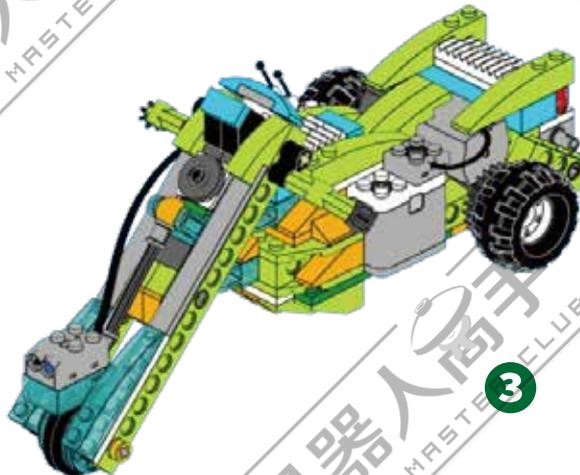
	X6		X1		X2		X4		X1		X1
	X4		X2		X4		X4		X1		X2
	X4		X2		X2		X4		X2		X4
	X3		X2								
	X4		X3		X2		X3		X2		X2
	X2		X2		X3		X2		X1		X2
	X2		X4		X1		X1		X2		X1
	X2		X3		X2		X2		X2		X1
	X4		X1		X2		X2		X4		X1
	X2		X2		X4		X4		X2		X1
	X1		X2		X2		X2		X1		X2
	X2		X3		X4		X1		X2		



1



2



3

## Construction Steps

Makerzoid(App)-Robot Master(Kit)-Soccer Competition(Set)-10 Newly Updated Programming-11 Harley