

# Mine Clearance Vehicle

**Applicable Age Group** 6+

**Activity Objectives**

- ✓ Master vertical gear transmission, horizontal transmission and connecting rod structure
- ✓ Know the application of motion sensors
- ✓ Understand the function and types of mine clearance vehicles

**Activity Description**

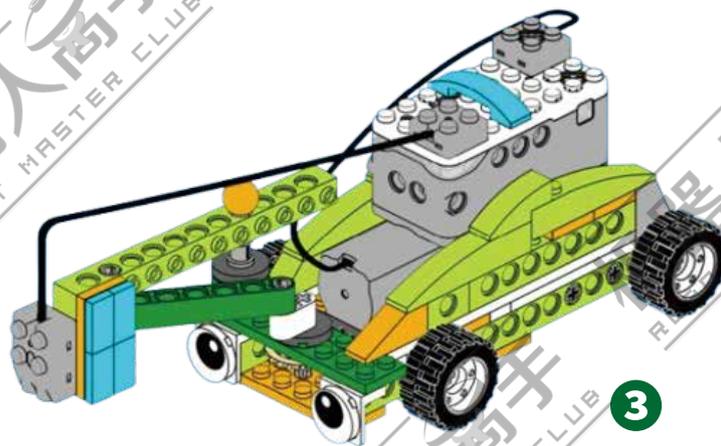
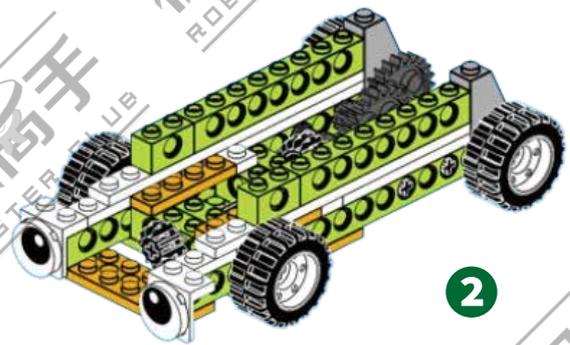
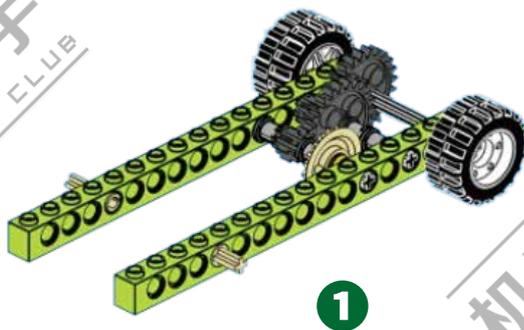
In this course, children will design a mine clearance vehicle based on gear transmission and sensor induction.

## STEAM Literacy Development Indicators

Indicator	Situation Introduction & Problem Analysis	Using Gears to Construct a Mine Clearance Vehicle	Testing Structural Stability and Smoothness	Understanding the Application of Gears
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

	X4		X2		X1		X5		X1		X2
	X2		X1		X1		X1		X1		X2
	X2		X1		X2		X1		X2		X2
	X3		X2		X2		X4		X4		X2
	X4		X3		X2		X2		X1		X1
	X1		X2		X2		X1		X2		X1
	X3		X1		X1		X2		X4		X1
	X4		X4		X1		X1		X1		X1
					X1		X1		X1		X1



## Construction Steps

Makerzoid(App)-Robot Master(Kit)-Soccer Competition(Set)-8 Jr Programming-16  
Mine Clearance Vehicle