

# Sweeper

## Applicable Age Group

6+

## Activity Objectives

- Understand the purpose and characteristics of sweepers
- Learn gear acceleration transmission and vertical transmission

## Activity Description

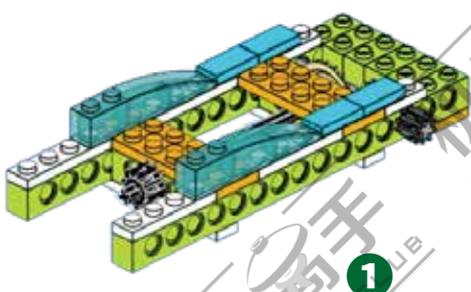
In this course, a sweeper is completed based on gear transmission and rubber band transmission.

## STEAM Literacy Development Indicators

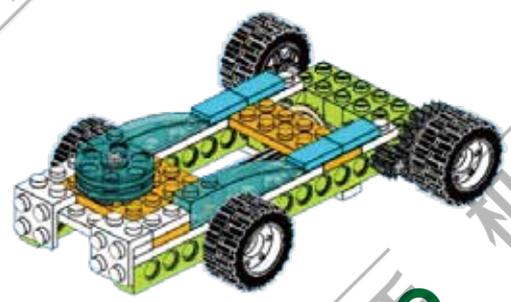
Indicator	Method	Situation Introduction & Problem Analysis	Using Gears and Rubber Bands to Construct a Sweeper	Testing Structural Stability and Smoothness	Understanding the Application of Gears
Curiosity and Imagination		●			
Flexibility and Adaptability					
Verbal and Written Communication Skills					
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

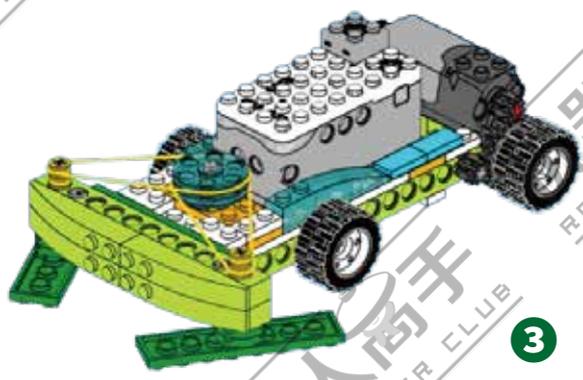
	X 4		X 1		X 2		X 1
	X 4		X 3		X 5		X 2
	X 3		X 1		X 1		X 2
	X 1		X 1		X 2		X 4
	X 4		X 1		X 2		X 4
	X 4		X 2		X 2		X 1
	X 4		X 1		X 4		X 1
	X 4		X 2		X 4		X 1
	X 2		X 2		X 2		



1



2



3

## Construction Steps

Makerzoid(App)-Robot Master(Kit)-Soccer Competition(Set)-5 Electric Engineering-17 Sweeper