

# Top Launcher With Trigger

## Applicable Age Group

6+

## Activity Objectives

- ✓ Learn gear acceleration and coaxial same-speed transmission
- ✓ Explore two-stage acceleration
- ✓ Understand the center of gravity

## Activity Description

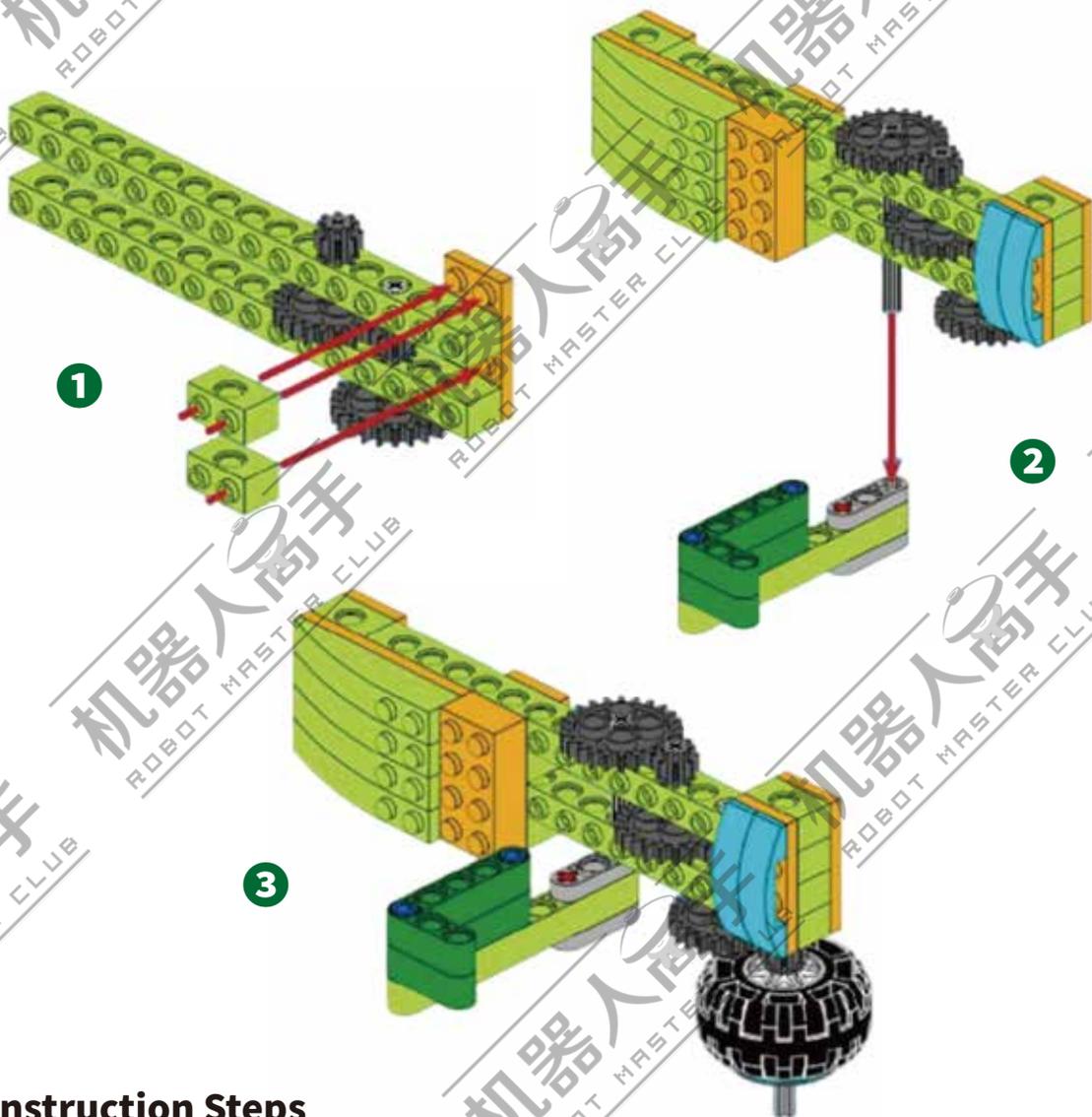
In this course, children will design a top for a top battle. Let children know that the lower the center of gravity, the more stably the top rotates.

## STEAM Literacy Development Indicators

Method Indicator	Situation Introduction & Problem Analysis	Using Gears to Construct a Top Launcher	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 4
	X 2		X 2		X 2		X 1
	X 4		X 1		X 1		X 1
	X 1		X 1		X 2		X 1
	X 3		X 1		X 2		
	X 3		X 2		X 2		



## Construction Steps

Makerzoid(App)-Robot Master(Kit)-Soccer Competition(Set)-3 Mechanical-6 Top Launcher With Trigger