

# Ferris Wheel

## Applicable Age Group

6+

## Activity Objectives

- ✓ Understand the structure of Ferris wheels
- ✓ Master the stability of triangles
- ✓ Master the application of worm gear box deceleration

## Activity Description

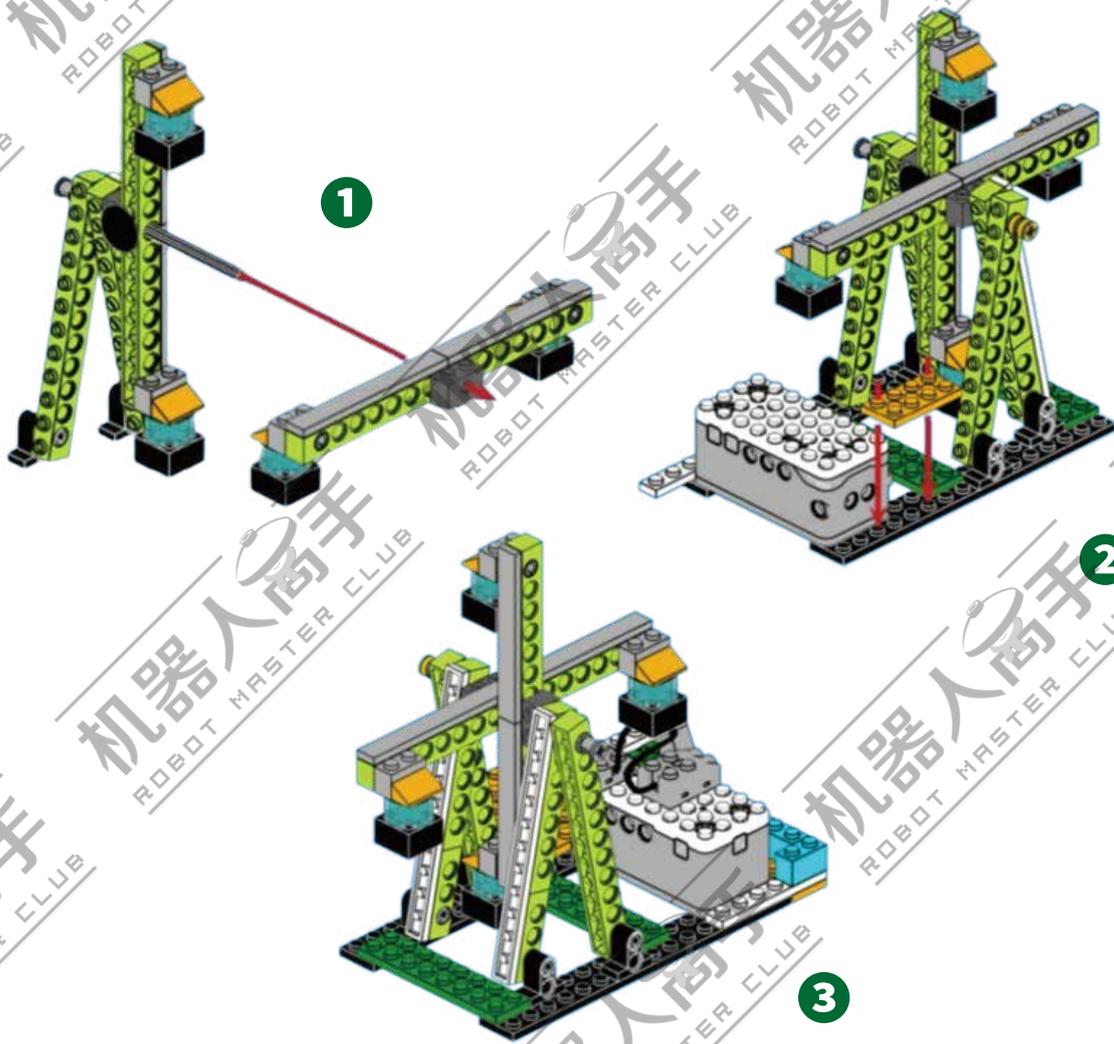
In this course, children will design a Ferris wheel based on worm gear boxes, understanding the function of Ferris wheels (being able to overlook the surrounding scenery from a height).

## STEAM Literacy Development Indicators

Indicator	Method	Situation Introduction & Problem Analysis	Using Gears to Construct	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

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



## Construction Steps

Makerzoid(App)-Robot Master(Kit)-Soccer Competition(Set)-10 Newly Updated Programming-16 Ferris Wheel