

# Manual Rotating YL Man

**Applicable Age Group** 6+

**Activity Objectives**

- ✓ Learn horizontal and vertical gear meshing transmission
- ✓ Understand the changes in gear acceleration and deceleration
- ✓ Understand the application of coaxial and same-speed transmission

**Activity Description**

In this course, children will design a rotating Minion and complete the construction by using vertical and horizontal gear transmission.

## STEAM Literacy Development Indicators

Method Indicator	Situation Introduction & Problem Analysis	Using Gears to Construct a Rotating Minion	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 6		X 2		X 2		X 2
	X 4		X 1		X 1		X 4
	X 3		X 2		X 1		X 2
	X 3		X 2		X 1		X 2
	X 4		X 1		X 1		X 2
	X 4		X 2		X 2		X 2
	X 3		X 3		X 2		X 2
	X 1		X 4		X 1		X 2
	X 2		X 6		X 1		X 3
	X 5		X 1		X 2		X 2
	X 3		X 5		X 2		X 2



## Construction Steps

Makerzoid(App)-Robot Master(Kit)-Soccer Competition(Set)-4YL Corps-26 Manual  
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