

Copter With YL Man

Applicable Age Group 6+

Activity Objectives

- ✓ Understand that the large propeller is responsible for ascending and descending, and the small propeller changes direction
- ✓ Learn vertical gear transmission
- ✓ Learn the components and working principle of helicopters

Activity Description

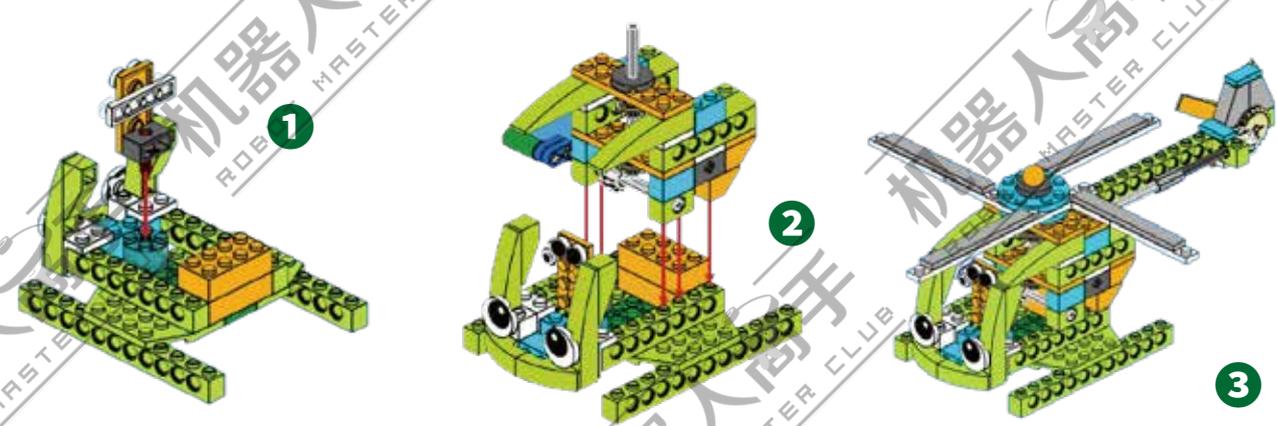
In this course, children will design a manned helicopter to understand its components and working principle.

STEAM Literacy Development Indicators

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



Construction Steps

Makerzoid(App)-Robot Master(Kit)-Soccer Competition(Set)-4YL Corps-41 Copter With YL Man