Chomper

Applicable Age Group 6+

Activity Objectives
☑ Master the application of worm gear boxes
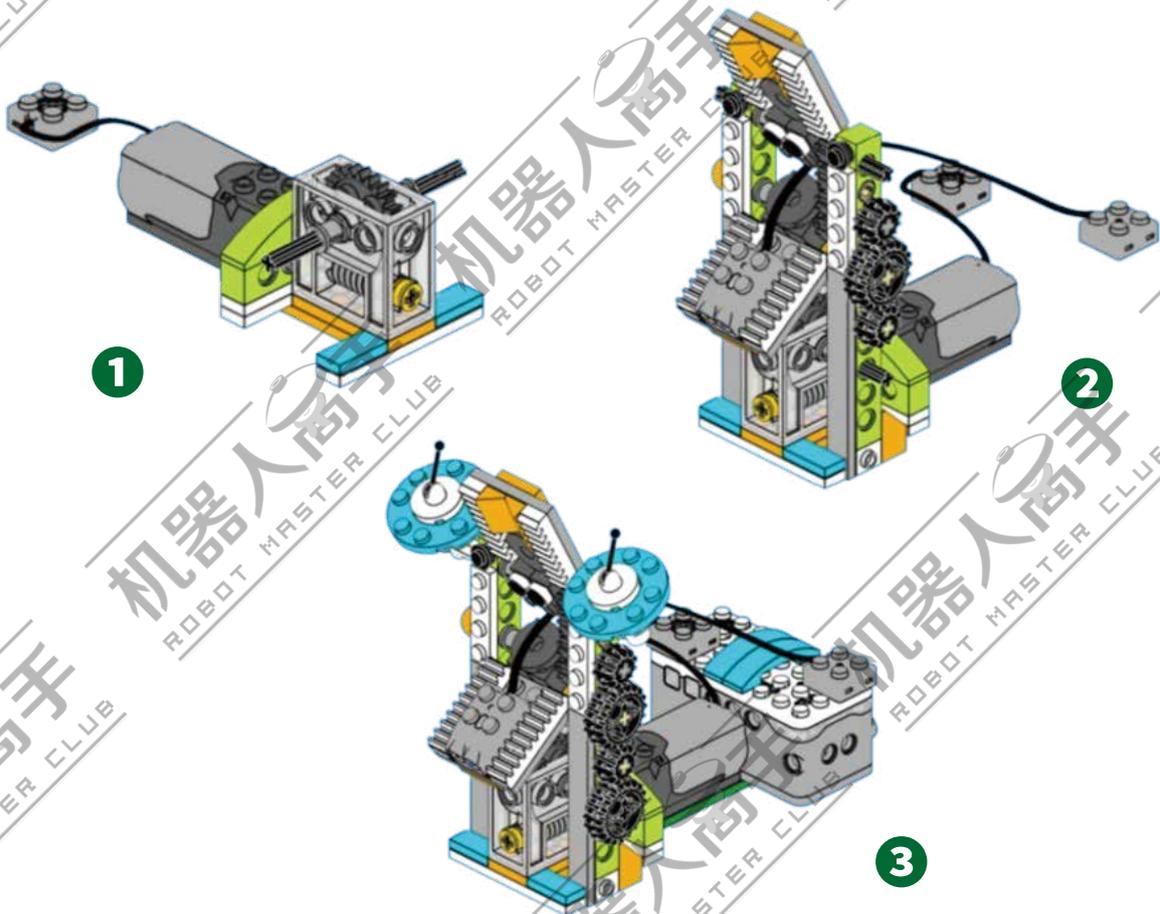☑ Learn horizontal gear transmission

Activity Description In this course, children will design a chomper based on the characteristics of worm gear boxes and horizontal gear transmission, simulating the action of Venus flytraps catching flies. When the sensor detects an object approaching, the chomper's mouth closes.

⚙️ STEAM Literacy Development Indicators

Method / Indicator	Situation Introduction & Problem Analysis	Using Worm Gear Boxes and Gears to Construct a Chomper	Testing Structural Stability and Smoothness	Understanding the Application of Worm Gear Boxes and 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 1		X 2		X 2		X 1		X 2		X 2	
	X 1		X 2		X 3		X 2		X 2		X 2	
	X 4		X 4		X 2		X 2		X 2		X 1	
	X 1		X 1		X 2		X 2		X 2		X 2	
	X 3		X 4		X 4		X 2		X 2		X 1	
	X 1		X 1		X 2		X 2		X 2		X 1	
	X 2		X 1		X 1		X 2		X 2		X 1	
	X 4		X 2		X 1		X 2		X 2			

❶

❷

❸

Construction Steps

Makerzoid(App)-Robot Master(Kit)-Soccer Competition(Set)-10 Newly Updated
Programming-12 Chomper