

Koi

Applicable Age Group

6+

Activity Objectives

- ✓ Proficiency in applying vertical gear transmission
- ✓ Master the connecting rod structure proficiently
- ✓ Apply and explain belt transmission

Activity Description

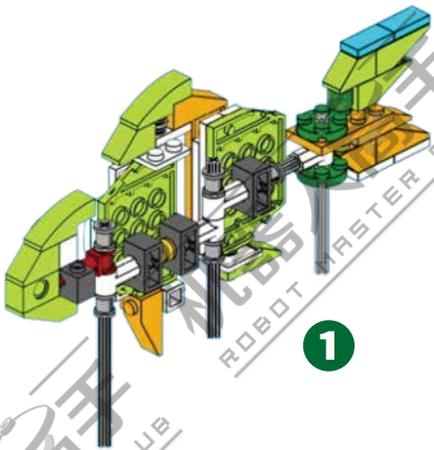
In this course, children will design a koi fish based on gear transmission, connecting rod structure and belt transmission.

STEAM Literacy Development Indicators

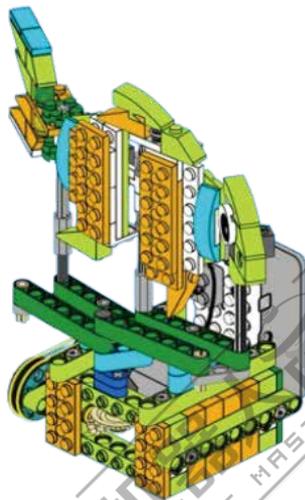
Indicator	Situation Introduction & Problem Analysis	Using Gears to Construct a Koi	Testing Structural Stability and Smoothness	Understanding the Application of Belt Transmission
Curiosity and Imagination	●			
Flexibility and Adaptability		●		
Verbal and Written Communication Skills				
Cross-boundary Cooperation and Exemplary Leadership				
Critical Thinking and Problem-solving Skills			●	
Proactive and Pioneering Spirit				●
Ability to Evaluate and Analyze Information				

Building Block List

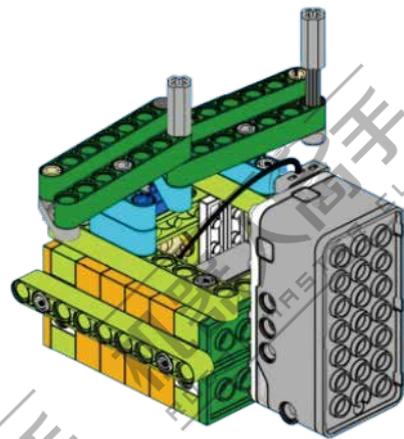
	X 5		X 1		X 5		X 2
	X 4		X 1		X 2		X 2
	X 3		X 1		X 2		X 2
	X 4		X 2		X 2		X 2
	X 4		X 1		X 4		X 1
	X 2		X 1		X 1		X 1
	X 2		X 1		X 4		X 1
	X 2		X 1		X 4		X 1
	X 4		X 3		X 4		X 2
	X 4		X 10		X 4		X 2
	X 2		X 2		X 3		X 4
	X 1		X 2		X 4		X 1
	X 4		X 2		X 1		X 1
	X 1		X 4		X 4		X 2



1



3



2

Construction Steps

Makerzoid(App)-Robot Master(Kit)-Soccer Competition(Set)-7 Electric Animal-9 Koi (Electric)