

# Oil Extractor

## Applicable Age Group

6+

## Activity Objectives

- ✓ Understand the structure of oil extractors
- ✓ Complete oil extraction through rubber band transmission
- ✓ Apply the crank-connecting rod structure to solve practical problems

## Activity Description

In this course, an oil extractor is completed based on rubber band transmission and crank-connecting rod structure. An oil extractor is a machine for extracting oil, commonly known as a "nodding machine" or pumping unit.

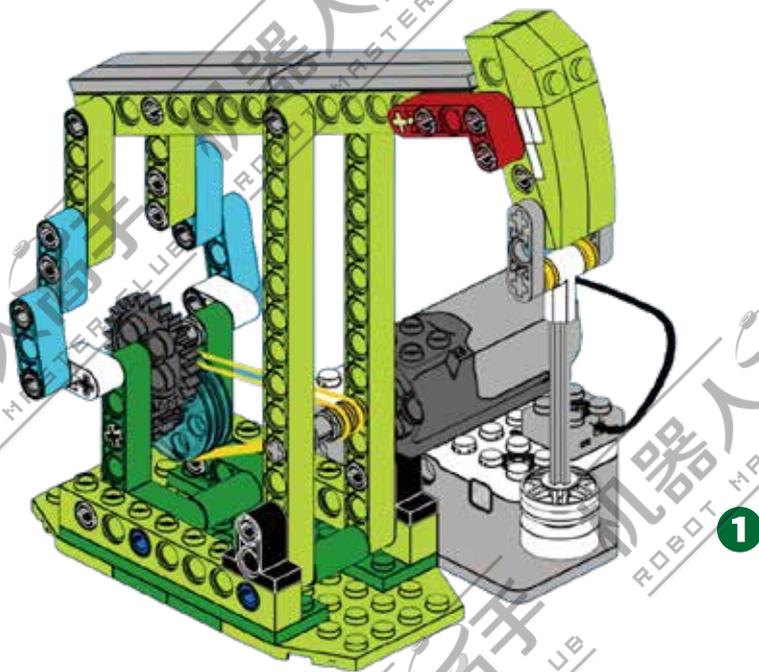


## STEAM Literacy Development Indicators

Method Indicator	Situation Introduction & Problem Analysis	Using Rubber Bands to Construct an Oil Extractor	Testing Structural Stability and Smoothness	Understanding the Application of Rubber Band 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 3		X 16		X 2		X 2
	X 4		X 8		X 4		X 4
	X 1		X 2		X 2		X 2
	X 1		X 4		X 2		X 2
	X 2		X 4		X 2		X 2
	X 1		X 2		X 2		X 1
	X 1		X 2		X 2		X 1
	X 1		X 2		X 2		X 1
	X 1		X 2		X 2		X 1
	X 1		X 1		X 2		X 1
					X 2		X 1



## Construction Steps

Makerzoid(App)-Robot Master(Kit)-Soccer Competition(Set)-5 Electric Engineering-23 Oil Extractor