

# Pivoting Fan

## Applicable Age Group

6+

## Activity Objectives

- ✓ Understand the basic structure and working principle of pivoting fans
- ✓ Master and apply vertical and horizontal gear transmission

## Activity Description

In this course, children will design a pivoting fan for cooling. The construction is completed using vertical and horizontal gear transmission.

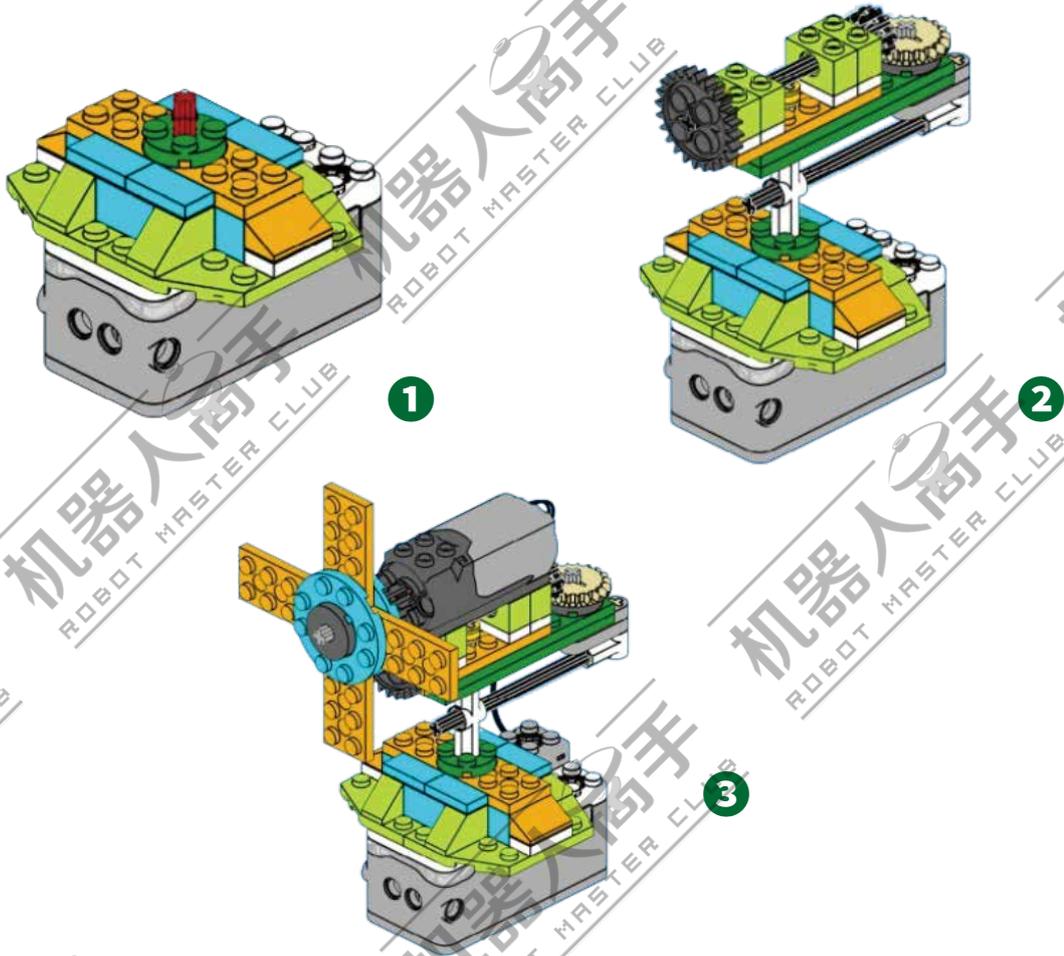


## STEAM Literacy Development Indicators

Indicator	Method	Situation Introduction & Problem Analysis	Using Gears to Construct a Pivoting Fan	Testing Structural Stability and Smoothness	Understanding the Application of Cam-Connecting Rod Mechanism
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 1		X 1		X 2
	X 4		X 1		X 1		X 2
	X 2		X 1		X 1		X 2
	X 2		X 1		X 2		X 1
	X 2		X 1		X 1		X 1
	X 4		X 2		X 4		X 1
	X 2		X 1		X 4		
	X 2		X 2		X 2		



## Construction Steps

Makerzoid(App)-Robot Master(Kit)-Soccer Competition(Set)-5 Electric Engineering-10 Pivoting Fan