

# Electric Tortoise

## Applicable Age Group

6+

## Activity Objectives

- ✓ Understand the living habits of tortoises
- ✓ Understand and master horizontal gear transmission and connecting rod structure

## Activity Description

In this course, children will design a crawling tortoise based on gear transmission and connecting rod structure.

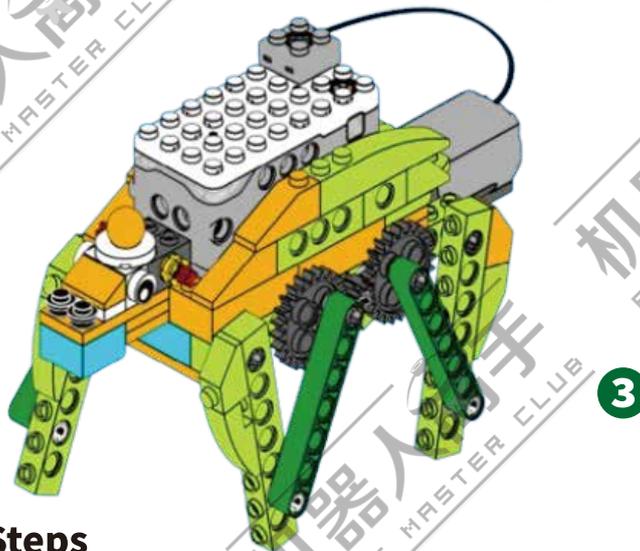
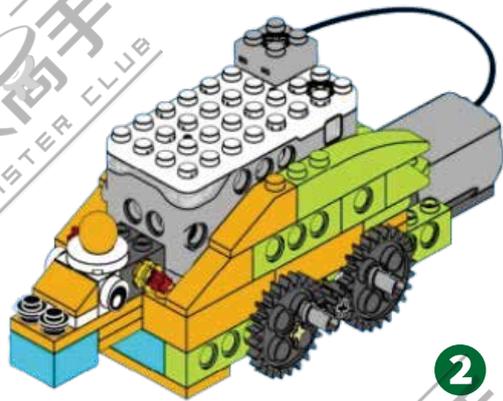
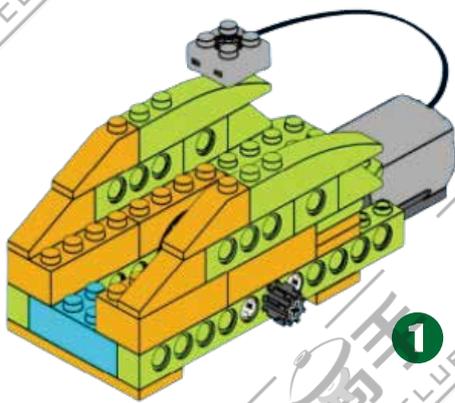


## STEAM Literacy Development Indicators

Indicator	Method	Situation Introduction & Problem Analysis	Using Gears to Construct a Tortoise	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 2		X 2		X 2		X 2
	X 3		X 1		X 4		X 2
	X 4		X 1		X 2		X 1
	X 2		X 8		X 4		X 2
	X 2		X 8		X 4		X 1
	X 1		X 4		X 2		X 1
	X 1		X 2		X 2		X 1
	X 4		X 2		X 1		X 1
	X 3		X 4		X 2		X 1
	X 4		X 4		X 2		X 1



## Construction Steps

Makerzoid(App)-Robot Master(Kit)-Soccer Competition(Set)-7 Electric Animal-8 Electric Tortoise