

Brachiosaurus

Applicable Age Group

6+

Activity Objectives

- ☑ Understand the basic characteristics and living habits of Brachiosaurus
- ☑ Apply the worm gear box
- ☑ Master the application of connecting rod structure

Activity Description

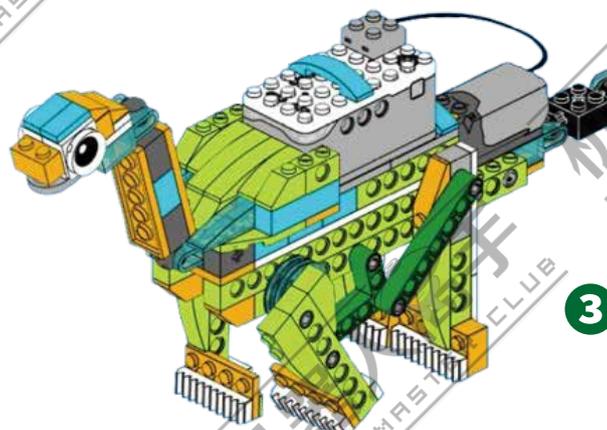
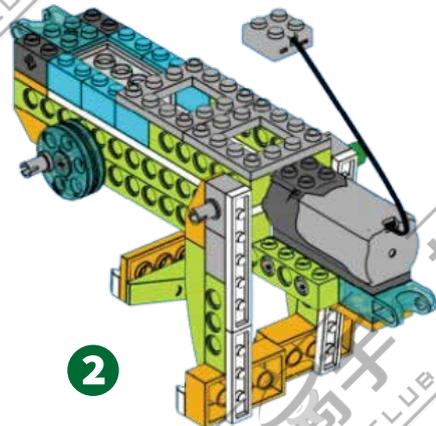
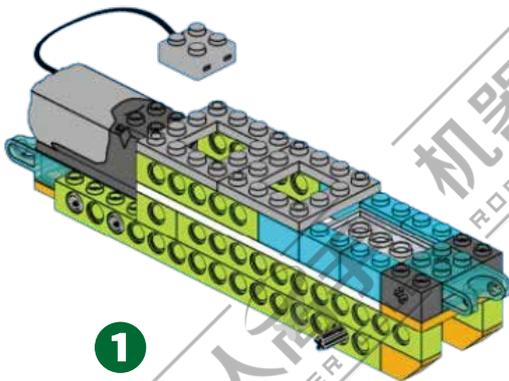
In this course, children will design a Brachiosaurus based on worm gear boxes and connecting rod structures.

STEAM Literacy Development Indicators

Indicator	Situation Introduction & Problem Analysis	Using Worm Gear Boxes to Construct a Brachiosaurus	Testing Structural Stability and Smoothness	Understanding the Application of Worm Gear Boxes
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

	X5		X1		X4		X4		X2
	X3		X1		X2		X2		X2
	X2								
	X1		X1		X2		X2		X4
	X4		X1		X4		X2		X3
	X4		X1		X4		X1		X2
	X4		X4		X2		X1		X2
	X2		X8		X4		X2		X2
	X4		X1		X2		X1		X1
	X3		X1		X3		X2		X1
	X2		X2		X2		X1		X1



Construction Steps

Makerzoid(App)-Robot Master(Kit)-Soccer Competition(Set)-7 Electric Animal-12 Brachiosaurus (Electric)