

Weightlifting Man

Applicable Age Group

6+

Activity Objectives

- ✓ Learn horizontal gear transmission
- ✓ Master the application of connecting rod structure
- ✓ Learn about Olympic sports

Activity Description

In this course, the connecting rod structure drives the arms to perform snatch and clean and jerk movements.

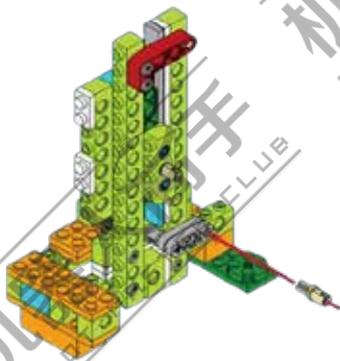
STEAM Literacy Development Indicators

Indicator	Method	Situation Introduction & Problem Analysis	Using Gears to Construct a Weightlifter	Testing Structural Stability and Smoothness	Understanding the Application of Cam-Connecting Rod Structure
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					

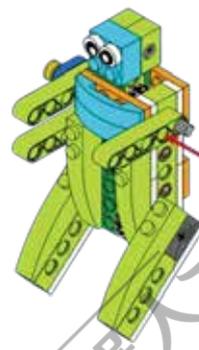
Building Block List

	X 3		X 2		X 2		X 2
	X 4		X 4		X 3		X 2
	X 1		X 2		X 2		X 1
	X 1		X 1		X 2		X 2
	X 3		X 2		X 2		X 4
	X 4		X 1		X 1		X 2
	X 3		X 2		X 2		X 2
	X 1		X 2		X 4		X 2
	X 3		X 7		X 3		X 2
	X 2		X 9		X 4		X 1
	X 2		X 6		X 3		X 1
	X 2		X 1		X 3		X 1
	X 2		X 4		X 2		X 1

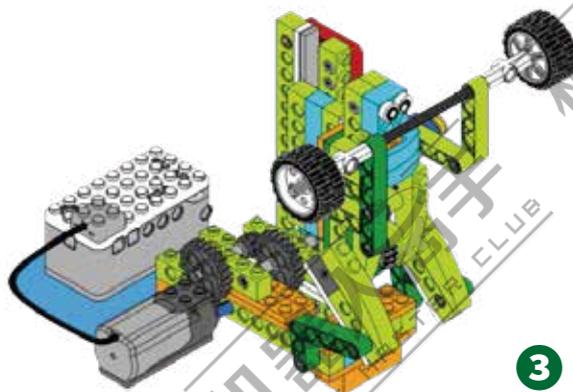
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2



3



Construction Steps

Makerzoid(App)-Robot Master(Kit)-Soccer Competition(Set)-5 Electric Engineering-13 Weightlifting Man