

Santa Claus

Applicable Age Group

6+

Activity Objectives

- ✓ Proficiency in using horizontal gear transmission
- ✓ Understand the meaning and celebration methods of Christmas

Activity Description

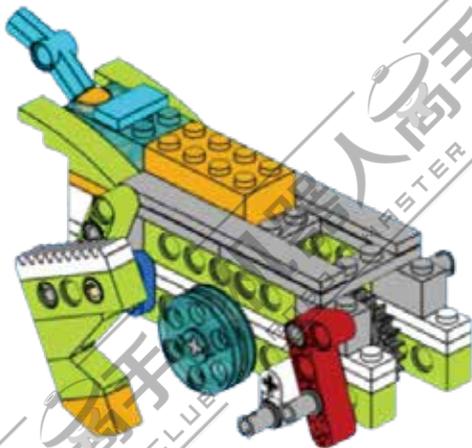
In this course, children will design a Santa Claus based on horizontal gear transmission to learn about Western festival culture.

STEAM Literacy Development Indicators

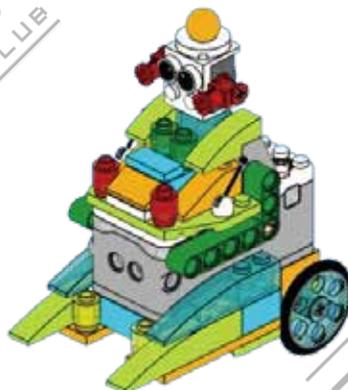
Indicator	Method	Situation Introduction & Problem Analysis	Using Gears to Construct Santa Claus	Testing Structural Stability and Smoothness	Understanding the Application of Gears
Curiosity and Imagination		●			
Flexibility and Adaptability			●		
Verbal and Written Communication Skills					
Cross-boundary Cooperation and Exemplary Leadership					
Critical Thinking and Problem-solving Skills				●	
Proactive and Pioneering Spirit					●
Ability to Evaluate and Analyze Information					

Building Block List

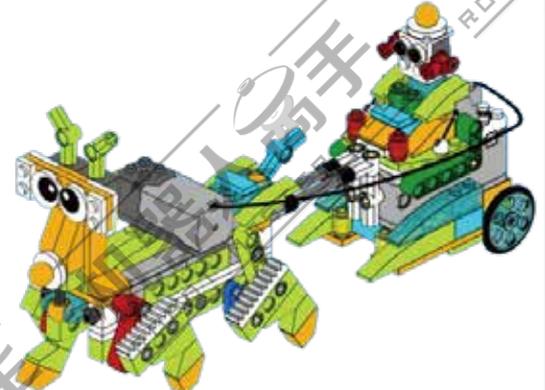
	X6		X1		X2		X2		X2		X4
	X3		X2		X2		X2		X4		X2
	X2		X4		X6		X2		X4		X2
	X2		X3		X6		X1		X2		X2
	X4		X2		X4		X2		X4		X2
	X2		X4		X1		X2		X4		X2
	X2		X4		X4		X2		X2		X2
	X3		X1		X4		X2		X3		X2
	X4		X1		X2		X2		X2		X2
	X2		X2		X2		X4		X2		X2
	X4		X2								
	X2		X2		X2		X4		X2		X2
	X2		X2		X2		X2		X4		X2
	X1		X1		X2		X2		X4		X2



1



2



3

Construction Steps

Makerzoid(App)-Robot Master(Kit)-Soccer Competition(Set)-5 Electric Engineering-5 Stanta Claus Car2