

Color Sorting Machine

Applicable Age Group

6+

Activity Objectives

- ☑ Understand the function of the sorting machine
- ☑ Learn the principle of the color recognition device

Activity Description

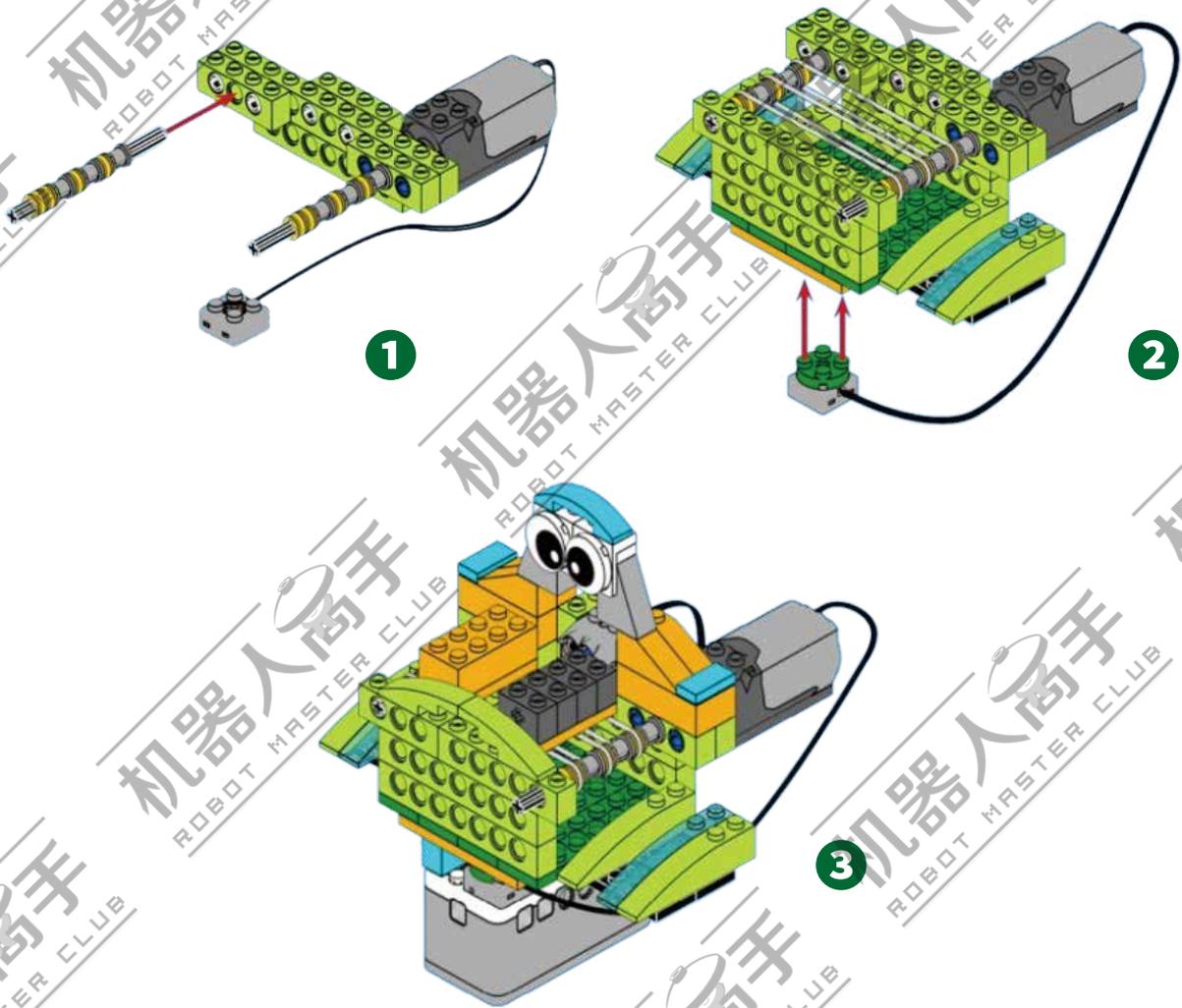
In this course, children will design a sorter that uses motion sensors to detect and sort objects.

STEAM Literacy Development Indicators

Indicator	Method Situation Introduction & Problem Analysis	Using Sensors to Construct	Testing Structural Stability and Smoothness	Understanding the Application of Sensors
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

	X1		X1		X1		X3		X2		X2
	X2		X4		X1		X1		X1		X1
	X2		X1		X4		X4		X1		X1
	X2		X1		X2		X1		X4		X3
	X4		X1		X7		X4		X2		X1
	X2		X3		X5		X2		X2		



Construction Steps

Makerzoid(App)-Robot Master(Kit)-Soccer Competition(Set)-8 Jr Programming-12
Color Sorting Machine (AI)