Tumbler

Applicable Age Group 6+

Activity Objectives

☑ Recognize tumblers

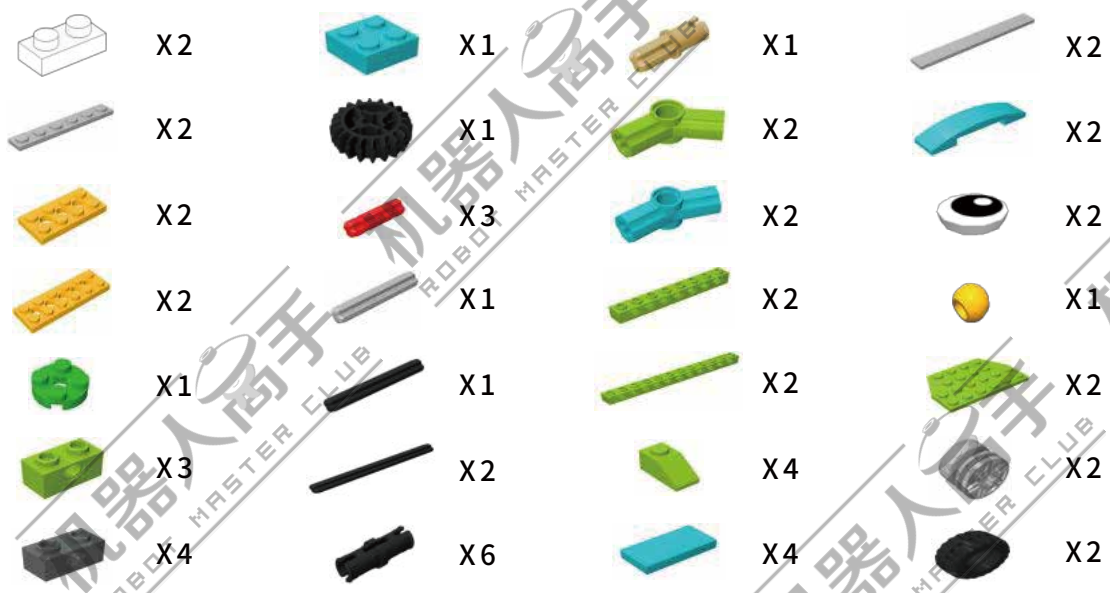
☑ Understand balance, center of gravity and fulcrum; the lower the center of gravity, the more stable it is

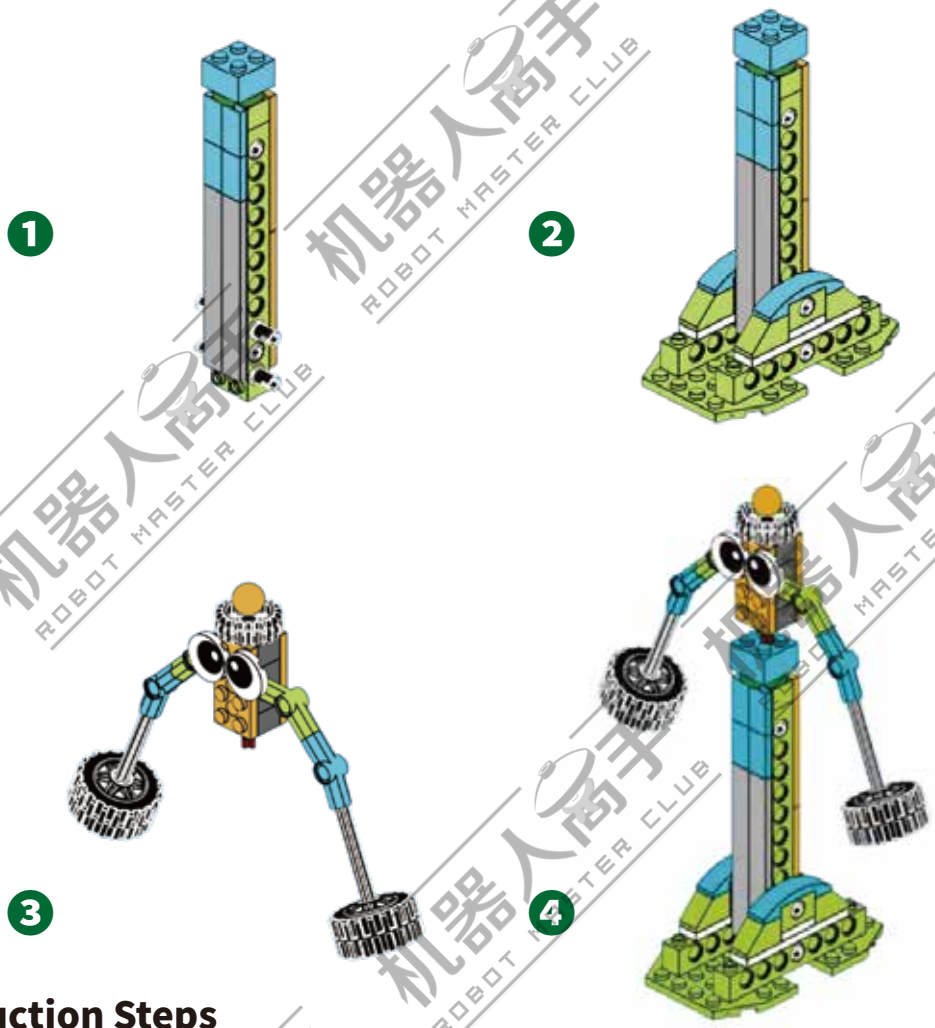
Activity Description In this course, children will design a tumbler based on the balance principle. They will learn that a tumbler can stand upright because it is light at the top and heavy at the bottom, and this only works when the weight is placed at the center.

STEAM Literacy Development Indicators

Method / Indicator	Situation Introduction & Problem Analysis	Using Building Blocks to Construct a Tumbler	Testing Structural Stability and Smoothness	Understanding the Application of Center of Gravity
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





Construction Steps

Makerzoid(App)-Robot Master(Kit)-Soccer Competition(Set)-4YL Corps-1 Tumbler