Balance

Applicable Age Group 6+

Activity Objectives

☑ Understand the function, components, and practical application methods of a balance

☑ Learn to construct a balance and know that it can maintain balance when the weights on both sides are equal

☑ Learn lever knowledge, master the two-point fixing of the "hamburger structure", and understand the principle of equal-arm levers

Activity Description In this course, children will design a balance scale. A balance is a tool for measuring the weight of objects and can be used to compare weights. It consists of a base, a support column, and a fulcrum center point.

STEAM Literacy Development Indicators

Method / Indicator	Situation Introduction & Problem Analysis	Using Building Blocks to Construct a Balance	Testing Structural Stability and Smoothness	Understanding the Application of Symmetrical Structures
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)-2 Basic-29 Balance