

Build a Bridge

Applicable Age Group 4-5 year-old toddlers

- Activity Objectives**
- ☑ Explore the stable structure of a bridge.
 - ☑ Understand span and be able to measure width.

Activity Description By building a bridge structure to cross a river, explore the stability of the bridge. During this process, learn about the bridge's span and measure the width of the river using building blocks or other non-standard units. Also, understand the structural characteristics and functional roles of different types of bridges.

STEAM Competence Development Indicators

Method Indicator	Situation-based introduction: Understand the function of bridges	Design and build a stable bridge	Understand the span of the bridge	Knowledge extension: Learn about different types of bridges
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			●	



Interactive Tips

- Before starting to build, ask children to use their own methods and non-standard measurement units to measure the width of the river, and be able to describe the length of the width.
- Regarding the bridge structure (including the deck, railings, piers, etc.), the goal is achieved as long as the structure is stable enough.
- The bridge itself is also a symmetrical structure. Observe the building blocks on both sides to complete the symmetrical design.

 Find These Building Blocks



 Design and Build a Structurally Stable Bridge

