

Winding Stairs

Applicable Age Group 4-5 year-old toddlers

- Activity Objectives**
- ☑ Understand the basic structure and function of stairs.
 - ☑ Explore stable and sturdy stair structures through hands-on operation.

Activity Description Children discovered a type of winding stairs, finding them both beautiful and fun. So they decided to build such curved stairs. During the building process, they will learn about stair structures and try to use support columns to prop up the stairs at the turns—this structure is very stable. They will also learn safety rules for going up and down stairs through scenario performances.

STEAM Competence Development Indicators

Method Indicator	Situation-based introduction: Understand stair structures	Build a stable, curved staircase	Check the stability of the staircase	Learn safety rules for going up and down stairs
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

- Stairs are common in daily life, and some shaped stairs have higher requirements for structural stability. However, shaped stairs are more aesthetically pleasing. When guiding children to build, you can also discuss the characteristics of such winding stairs.
- The connection between blocks should be tight to prevent the stair structure from loosening. There is no need for too many support structures—only place them at the turns. Guide children to be aware of using as few blocks as possible for construction.

- The turning points of the stairs are the difficulty. How to arrange the blocks to make the stairs turn is something children need to explore. Give them some time and encourage them to find the building method on their own.

Find These Building Blocks



Building a winding staircase, with attention to its support structure.

