

# Submarine

**Applicable Age Group** 4-5 year-old toddlers

- Activity Objectives**
- ☑ Create, design and build an undersea exploration vessel by observing and understanding its appearance characteristics.
  - ☑ Explore the proportional relationship between the size of the submarine hull and other structures.

**Activity Description**

Explore undersea adventure tools with children, learn about the basic structure of a submarine, and conduct creative development based on this foundation. During the hands-on building process, observe and adjust the size ratio between the hull and other structures to understand the importance of structural proportions.

## STEAM Competence Development Indicators

Method Indicator	Situation-based introduction: Understand the basic structure of a submarine	Build a submarine using engineering blocks	Observe and test the proportion of the hull to other structures	Use imagination to build scenes
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

- The building and installation of the periscope is the difficulty and key point of this activity. Its height and position need to be determined, and its proportion to the hull should be appropriate.
- Underwater vehicles move by propellers; children need to find the right building blocks to construct this part.

