# Sailboat

**Applicable Age Group** 3-4 year-old toddlers

**Activity Objectives**

☑ Understand the structural characteristics of water transportation vehicles.

☑ Explore ways to make objects move on water through hands-on building.

☑ Learn about buoyancy through observation and experiments.

**Activity Description** By observing the structure and functions of common ship hulls in daily life, children will learn about how sailboats move. They will build a sailboat by hand, observe the phenomenon of buoyancy and how to make the sailboat move, and gain an understanding of the structural characteristics of water transportation vehicles and more methods of traveling on water.

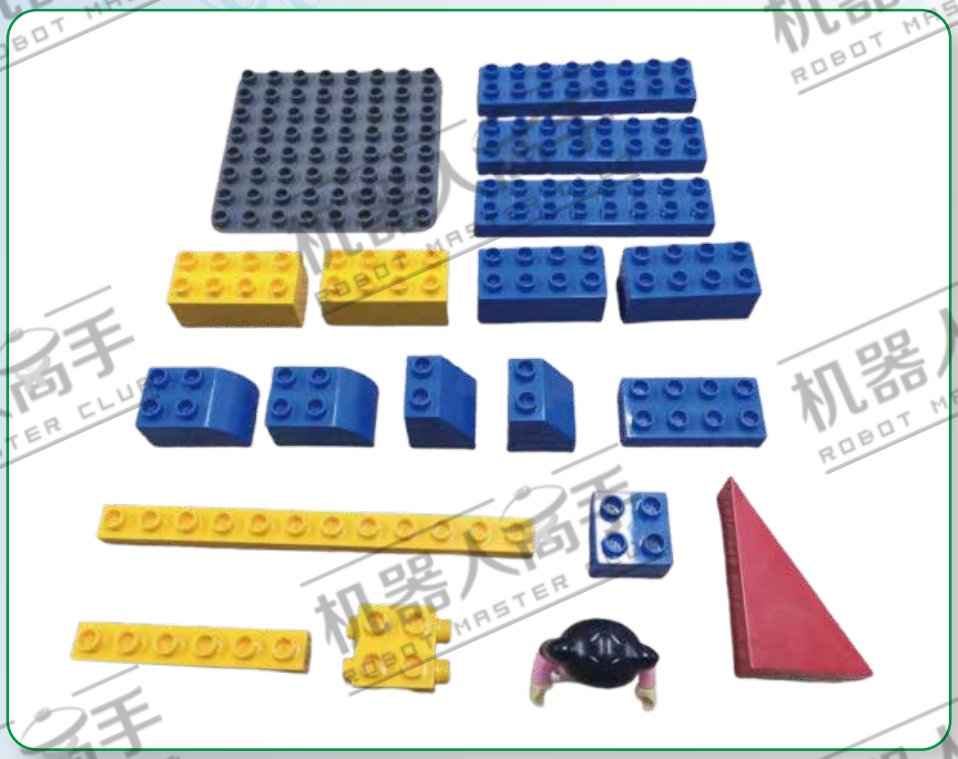
## STEAM Competence Development Indicators

| Indicator \ Method | Situation-based introduction: Understand different types of ships | Build a sailboat with a complete structure | Observe the buoyancy phenomenon | Knowledge extension: Understand the movement methods of water tools |
|---|---|---|---|---|
| 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 hull structure needs to be interlocked to ensure the hull is strong and stable.
- The sail can be triangular or rectangular; children can decide on the shape by themselves.
- After completing the ship structure, it should be able to float on water, so prepare a basin of water for the experiment.

## Find These Building Blocks



## Build a Sailboat with a Complete Structure