

# Fun Seesaw

**Applicable Age Group** 5-6 year-old toddlers

- Activity Objectives**
- ☑ Explore the principle of dynamic balance of structures through observation and hands-on practice.
  - ☑ Understand lever balance and the lever principle.
  - ☑ Be able to identify the fulcrum and force arm of a lever.

**Activity Description** You will explore the dynamic balance process of a seesaw with children. When the weight and position of one end change, discuss how to adjust the other end to keep both ends of the seesaw balanced at all times. Through this, children will understand the lever principle and recognize the fulcrum and force arm of a lever.

## STEAM Literacy Development Indicators

Indicator	Method	Story-based introduction: Analyze the balance conditions of a seesaw	Hands-on practice: Imitate and build	Test to understand the lever principle	Further explore the lever principle
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

- Dynamic balance requires children to observe and try more. Therefore, when using beams for experiments, encourage them to do more attempts to find a point where balance can be maintained.
- Axles will also be used in this activity. Combine axles and beams, and let children try again to find the position of the dynamic balance point of the beam.

- When connecting axles and beams, pay attention to the position of the axles. Let children try different positions, and finally they will find that the middle position can maintain balance.
- When extending the construction of both ends, pay attention to symmetry. If it is not symmetrical, the balance will be broken.

### Find These Blocks



### Connect Axles and Beams, and Extend Both Ends of the Seesaw

