

Fishing Pro

Applicable Age Group 5-6 year-old toddlers

- Activity Objectives**
- ☑ Explore the working principle of pulley structures through hands-on practice.
 - ☑ Understand that the function of fixed pulleys is to change the direction of force.

Activity Description Tell children the story of The Cat Fishing to inspire them to learn that they should not be half-hearted when doing things. From this, introduce fishing rods to imitate the cat fishing, help children understand the structure of fishing rods. When trying to design and build a fishing rod, let them explore pulley structures and the fact that fixed pulleys can change the direction of force.

STEAM Literacy Development Indicators

Method Indicator	Story-based introduction: Understand pulley devices	Build a fishing rod using a fixed pulley	Understand that fixed pulleys change the direction of force	Connect back to the story and relate to real life
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	●			

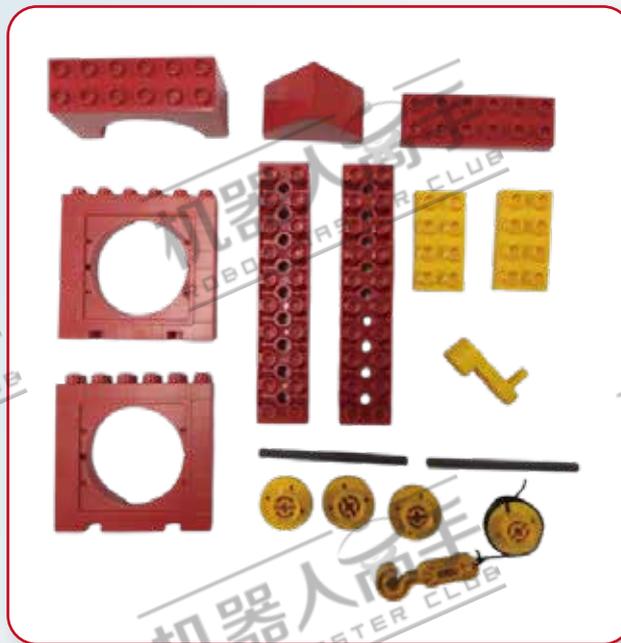


Interactive Tips

- Most children have heard the story of The Cat Fishing; you can tell it briefly, focusing on introducing fishing rods. This also makes it easier to continue the story content in the final "optimization" link.
- The pulley device is the key and difficult point of this activity. Since it is the knowledge that needs to be mastered, let children follow along with hands-on operations during the demonstration—it will help them understand pulleys better.

- When connecting pulleys, axles, and beams, pay attention to the position of the axles. Encourage children to experiment freely to find the optimal position that allows for smooth operation of the fishing rod.
- After installing the fixed pulley, attach the black fishing line, spool, and fishhook. Turn the spool to observe the direction of the fishhook's movement.
- It is crucial to encourage children to discover on their own that fixed pulleys can change the direction of force—this will help them form a deeper and longer-lasting memory of the concept.

Find These Blocks



Connect Axles and Beams, and Install Pulleys

