

Propeller Car

Applicable Age Group 5-6 year-old toddlers

- Activity Objectives**
- ☑ Understand the vertical transmission of bevel gears through observation and hands-on operations.
 - ☑ Flexibly use gear transmission to creatively build a propeller car.

Activity Description This activity is a full display of creativity. By observing the vertical meshing and vertical transmission of bevel gears, apply this principle to a propeller car. One bevel gear connects the propeller and a spur gear; the spur gear then drives the wheels. This creates a linked process: the propeller rotates, the gears rotate, the wheels rotate, and finally the car moves. It is a great test of children's ability to apply and transfer knowledge.

STEAM Literacy Development Indicators

Method Indicator	Situation-based introduction: Analyze the propeller car	Build a car using bevel gears	Test the smoothness of gear transmission	Knowledge extension: Further explore the car
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 key and difficulty of the building process lies in gear combination and gear transmission. Give children more time to explore; do not rush to tell them the answer, so that they have the opportunity to better understand the vertical transmission of bevel gears.
- A core combination is: the propeller must be connected to a bevel gear, which then drives a spur gear, and finally drives the car to move.

 Find These Blocks



 Use Bevel Gears to Creatively Build a Propeller Car

