Ice Hockey Player

Applicable Age Group 5-6 year-old toddlers

Activity Objectives

☑ Understand the basic rules of ice hockey.

☑ Flexibly use the vertical transmission of bevel gears to creatively design an ice hockey player model.

Activity Description This activity focuses on further flexible application of the vertical transmission of bevel gears. The vertical transmission drives the gears on the arm, thereby realizing the arm-lifting process. The difficulty of the model design lies in selecting the appropriate gear combination without affecting the stability and balance of the overall structure.

STEAM Literacy Development Indicators

Method / Indicator	Situation-based introduction: Analyze ice hockey players	Build an ice hockey player model using bevel gears	Test the flexibility of the arms	Optimize the structure to strengthen functions
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

- This activity involves further application of bevel gears, which requires proficient mastery. If children have different ideas, encourage them to try first before making a choice.
- Confirm the installation position of bevel gears and the way of gear combination. The arm that needs to be connected must be fixed with a crank.
- There is more than one way to combine gears. After building the human-shaped structure, children can try different combinations to find the most suitable one.

Find These Blocks

Use Bevel Gears to Creatively Build an Ice Hockey Player