

Weed Remover

Applicable Age Group 5-6 year-old toddlers

- Activity Objectives**
- ☑ Understand the basic function and structural characteristics of weed removers.
 - ☑ Master the transmission principle of bevel gears and their application in weed removers.

Activity Description By guiding children to understand the basic structure and working principle of weed removers, use the transmission characteristics of bevel gears to design and build a simple weed remover model. The goal of the activity is to learn mechanical knowledge through hands-on practice and cultivate innovative thinking and problem-solving abilities.

STEAM Literacy Development Indicators

Method	Situation-based introduction: Understand the structure of a lawnmower	Design and build a lawnmower using mechanical structures	Test the stability and smoothness of the structure	Organize games to strengthen functions
Indicator				
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 mechanical structure used in the structure to be built is not unique; children can choose which mechanical structure to use according to their own ideas.
- Use basic blocks to build the basic frame of the weed remover, ensure the structure is stable, and confirm the main parts of the weed remover, such as the body and base.
- Install the bevel gears on the transmission shaft to ensure that the gears can mesh closely and transmit smoothly.

