

# Road Roller

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

**Activity Objectives**

- ☑ Explore the structure of rotating rollers.
- ☑ Understand the proportion between the roller device and the vehicle body structure through observation and hands-on operations.

**Activity Description** Children encounter a problem: during road construction, a large tool is needed to compact the road surface—and a road roller can exactly complete this task. It has large rollers that roll back and forth on the ground. Guide children to design and build a road roller, explore the proportional relationship between various parts of the vehicle body and the roller structure, and understand the working process of the road roller.

## STEAM Literacy Development Indicators

Method Indicator	Situation-based introduction: Understand the function of a road roller	Build a large road roller structure	Test the proportion of the roller device to the vehicle body	Recreate scenarios to simulate the work process
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 front roller itself is relatively heavy; pay attention to the stability of the connection between the roller and the vehicle body during installation.
- The proportion between the roller structure and the vehicle body is also important. A relatively large roller should be connected to a correspondingly large vehicle body—otherwise, the vehicle body proportion will be unbalanced, and the road roller will be unstable when moving.

 Find These Blocks

