Rotating Coffee Cups

Applicable Age Group 5-6 year-old toddlers

Activity Objectives

☑ Recognize symmetry and understand the characteristics of symmetrical structures.

☑ Use symmetrical structures to design rotating coffee cups.

Activity Description Explore symmetrical structures in daily life with children. Symmetry includes axial symmetry and central symmetry, and such designs are common in life. Guide children to describe the characteristics of symmetry in their own words. After understanding symmetry, use symmetrical structures to design the rotating coffee cup device.

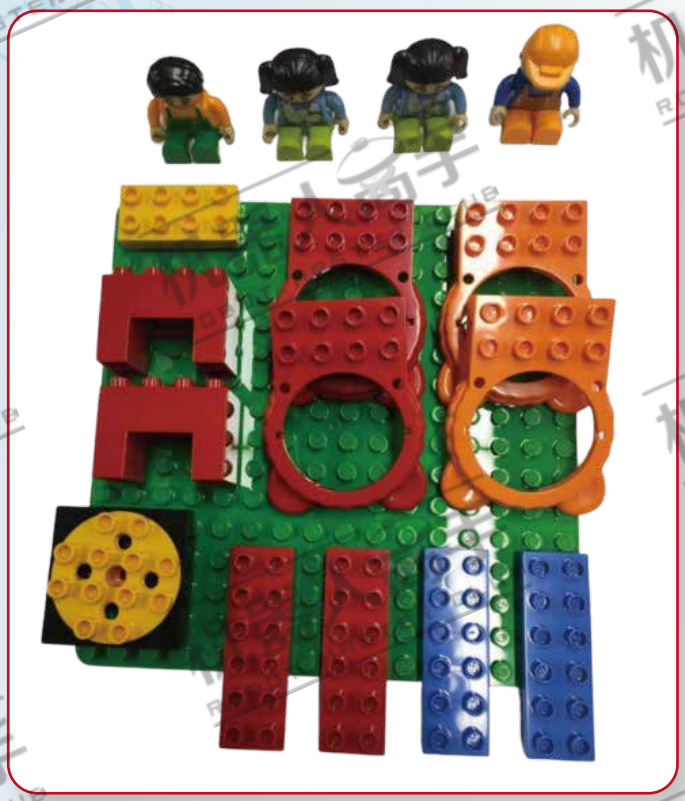
STEAM Literacy Development Indicators

Method / Indicator	Understand axial symmetry and central symmetry	Design a rotating coffee cup with a symmetrical structure	Test whether the "coffee cup" can work normally	Knowledge expansion: Further explore symmetry
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 rotating base is at the bottom. When connecting the four coffee cups, pay attention to the stability and firmness of the turntable to ensure the device is safe when rotating.
- Remind children during construction that this is a symmetrical structure. Ask them: Where is your axis of symmetry? Or where is the center of symmetry?

Find These Blocks



Use Symmetry to Connect the Four Coffee Cups and the Rotating Base