

Bus

Applicable Age Group

6+

Activity Objectives

- ☑ Understand different types of transportation tools
- ☑ Review and consolidate different transmission methods

Activity Description

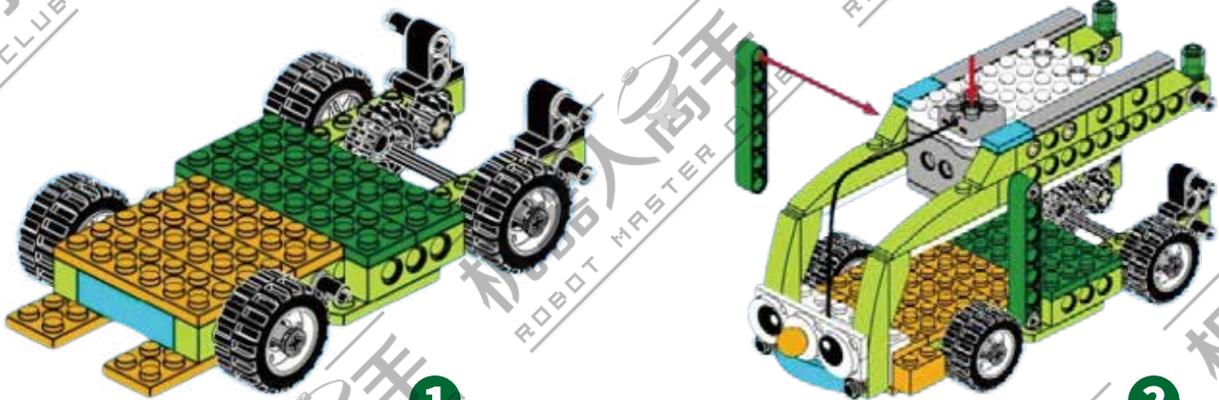
In this course, children will design a bus based on gear transmission to understand the characteristics of buses.

STEAM Literacy Development Indicators

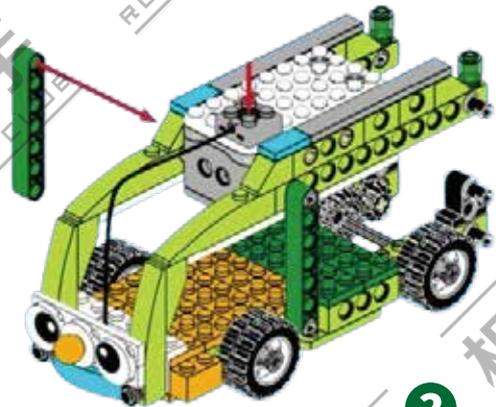
| Indicator | Method Situation Introduction & Problem Analysis | Using Gears to Construct a Bus | Testing Structural Stability and Smoothness | Understanding the Application of Gears |
|---|--|-----------------------------------|--|---|
| Curiosity and Imagination | ● | | | |
| Flexibility and Adaptability | | ● | | |
| 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 | | | | |

Building Block List

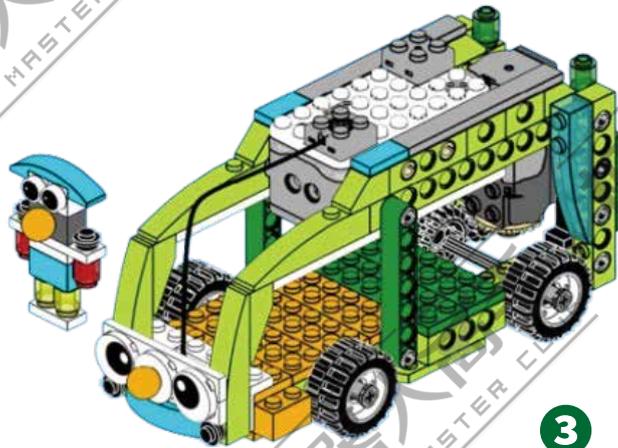
| | | | | | | | | | | | |
|--|----|--|----|--|-----|--|----|--|----|--|----|
| | X3 | | X1 | | X2 | | X2 | | X4 | | X2 |
| | X1 | | X2 | | X10 | | X2 | | X2 | | X2 |
| | X2 | | X1 | | X1 | | X4 | | X2 | | X2 |
| | X2 | | X1 | | X4 | | X2 | | X1 | | X4 |
| | X2 | | X4 | | X1 | | X2 | | X2 | | X4 |
| | X4 | | X1 | | X4 | | X2 | | X2 | | X1 |
| | X4 | | X1 | | X2 | | X2 | | X2 | | X1 |
| | X4 | | X1 | | X4 | | X4 | | X3 | | X1 |
| | X1 | | X2 | | X2 | | X2 | | X2 | | X1 |



1



2



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Construction Steps

Makerzoid(App)-Robot Master(Kit)-Soccer Competition(Set)-8 Jr Programming-17 Bus