

# Electric Cat and Mouse

## Applicable Age Group

6+

## Activity Objectives

- ✓ Master vertical gear transmission
- ✓ Understand the living habits of small animals

## Activity Description

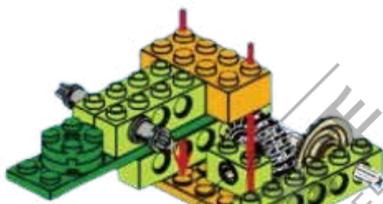
In this course, children will design a large crocodile based on belt transmission.

## STEAM Literacy Development Indicators

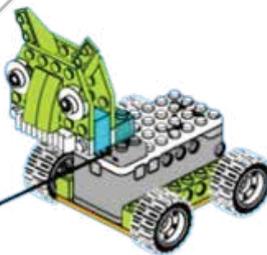
| Indicator   | Method | Situation Introduction & Problem Analysis | Using Vertical Gear Transmission to Construct | Testing Structural Stability and Smoothness | Understanding the Application of Gears |
|---|--------|---|---|---|--|
| Curiosity and Imagination                           |        | ●   |   |   |  |
| 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

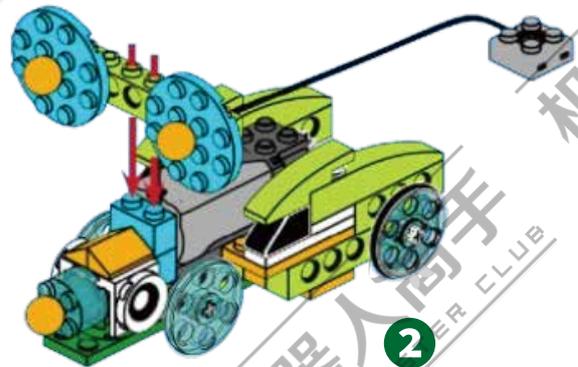
|  |     |  |     |  |     |  |     |
|--|-----|--|-----|--|-----|--|-----|
|  | X 4 |  | X 1 |  | X 3 |  | X 3 |
|  | X 2 |  | X 1 |  | X 2 |  | X 2 |
|  | X 2 |  | X 1 |  | X 2 |  | X 2 |
|  | X 2 |  | X 1 |  | X 2 |  | X 2 |
|  | X 4 |  | X 1 |  | X 2 |  | X 1 |
|  | X 1 |  | X 1 |  | X 2 |  | X 4 |
|  | X 2 |  | X 1 |  | X 2 |  | X 3 |
|  | X 1 |  | X 2 |  | X 2 |  | X 4 |
|  | X 2 |  | X 5 |  | X 2 |  | X 4 |
|  | X 4 |  | X 1 |  | X 2 |  | X 1 |
|  | X 1 |  | X 1 |  | X 2 |  | X 1 |
|  | X 1 |  | X 4 |  | X 2 |  | X 1 |
|  | X 1 |  | X 2 |  | X 3 |  |     |



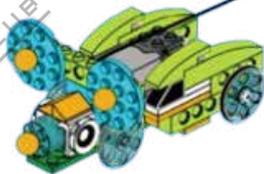
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3



2



## Construction Steps

Makerzoid(App)-Robot Master(Kit)-Soccer Competition(Set)-7 Electric Animal-6  
Electric Cat and Mouse