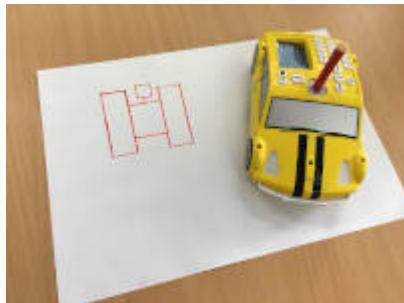


Draw a Butterfly

SLQ Wiki Fabrication Lab 2026/02/26 02:21

Draw a Butterfly



Details

Age group	Year 2 to Year 4 (ages 8 to 10)
Method	Individual activity
Participant to facilitator ratio	6:1
Duration	45 mins

Aim/Key Learning

Program the Pro-Bot to draw a butterfly on a piece of paper.

Preparation and Materials Required

- Pro-Bot for each participant
- A pen that fits the Pro-Bot pen holder
- Paper taped to the table

Activity Steps

1. Introduction

Time: 10 mins

Introduce yourself, participants introduce themselves, cover any housekeeping. Explain the aim of the workshop ('Today we are going to program a Pro Bot to draw a butterfly'). Show participants how to program the Pro Bot using the movement and repeat commands. Conduct a brief demonstration of the Pro Bot drawing an object (such as a square). Show participants an pre-drawn example butterfly.

2. Experiment and Explore

Time: 30 mins

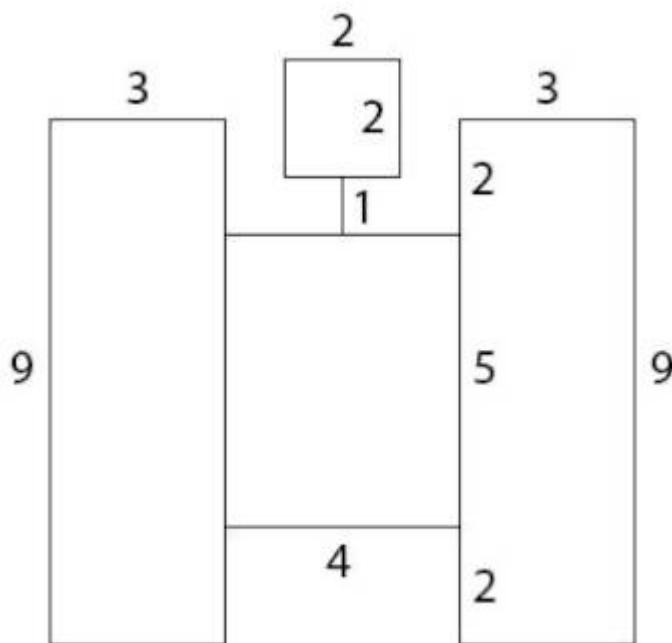
Participants attempt to program the Pro Bot to draw the butterfly. When the Pro Bot makes a wrong move, the facilitator should replace the piece of paper.

3. Evaluation and Closing

Time: 5 mins

At the end of the session, thank everyone for their participation and team work.

Solution



- Each wing is 9 cms high and 3 cms wide
- The body is 5 cms high and 4 cms wide
- The neck is 1 cm long
- Each side of the head is 2 cms

There are multiple ways this can be achieved with the Pro-Bot and the code below is only one way.

Starting at the top left corner of the left wing and facing right, the following code can be used:

```
// Left Wing                                // Right Wing Cont.
Fd 3                                         Fd 3
Rt                                         Lt
Fd 9                                         Fd 7
Rt
Fd 3                                         // Move to top of body
Rt                                         Bk 5
Fd 9                                         Rt

// Move to bottom of body                  // Top of body
Rt                                         Fd 4
Fd 3                                         Bk 2
Rt                                         Rt
Fd 7                                         // Neck
Lt                                         Fd 1

// Bottom of body                         // Head
Fd 4                                         Rt
Rt                                         Bk 1

// Right Wing                             Fd 2
Fd 2                                         Lt
Lt                                         Fd 2
Fd 3                                         Lt
Lt                                         Fd 2
Fd 9                                         Lt
Lt                                         Fd 2
```

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