

Name:

Student Number:

Date:

## Lesson 4 Benchmark I: When mBot Meets a Robot

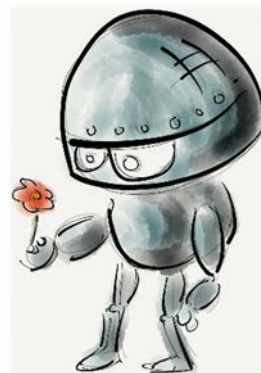
### Project Guide

#### Your Task:

Imagine that you and your partners sent a delegation to the future Robot Society. mBot on your behalf met with the robot citizens there. What would happen when they met each other?

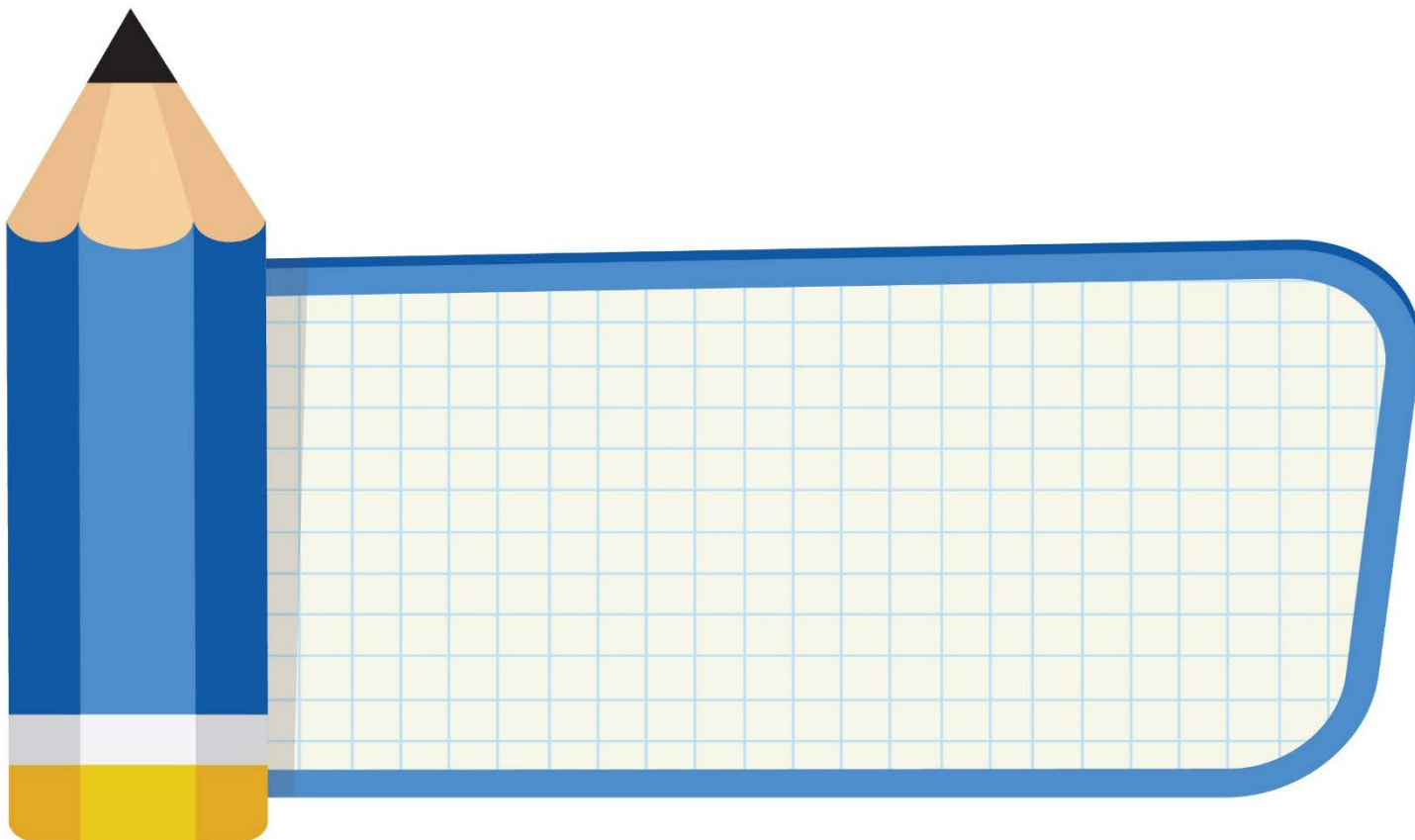
You need to develop a short animation in this project:

- (1) Discuss with your partner(s), outline the story for the animation – you are welcome to draft this either in a detailed and well-structured format or by doodling the key points;
- (2) Translate your story into a set of instructions that can be transformed into computer code;
- (3) Design the stage by adding relevant character sprites and backdrops (and interactive effects whatever you think can enrich your animation);
- (4) Program the elements you used in the stage – remember to utilize the coding skills and knowledge you have learned in the previous lesson;
- (5) Share and present your work with your classmates and tutor(s). Tell them the story!



#### Your Story:

Draft and write down your ideas about a delegation of mBot meeting with the future robot citizens:



## Your Design:

Have your characters on the stage! Address the “Who” “Where” “What” and “How” to help plan the stage design.  
You may need to use (but not limited to) the following coding blocks:

| Coding Block                   | Category | Coding Block                        | Category |
|--------------------------------|----------|-------------------------------------|----------|
| ask What's your name? and wait | Sensing  | change color effect by 25           | Looks    |
| say Hello! for 2 seconds       | Looks    | set color effect to 0               | Looks    |
| think Hmm... for 2 seconds     |          | play sound computer beep until done | Sound    |
| switch costume to robot-a      |          | start sound computer beep           | Sound    |
| next costume                   |          | when clicked                        | Events   |
| change size by 10              |          | when this sprite clicked            | Events   |
| set size to 100 %              |          | wait 1 seconds                      | Control  |
|                                |          |                                     |          |

## Feedback:

When you complete your project, invite at least one peer to star and comment on your work:

| To what degree do you think ...            | Guest Score | Self-Score |
|--------------------------------------------|-------------|------------|
| The design of character sprites looks cool | ☆☆☆☆☆☆      | ☆☆☆☆☆☆     |
| The talk is logically ordered              | ☆☆☆☆☆☆      | ☆☆☆☆☆☆     |
| The talk is fun and enjoyable              | ☆☆☆☆☆☆      | ☆☆☆☆☆☆     |
| The sprites perform smart and interactive  | ☆☆☆☆☆☆      | ☆☆☆☆☆☆     |

Write a brief description of your project and publish your animation in the mBlock community.  
You can draft it in the space below:

