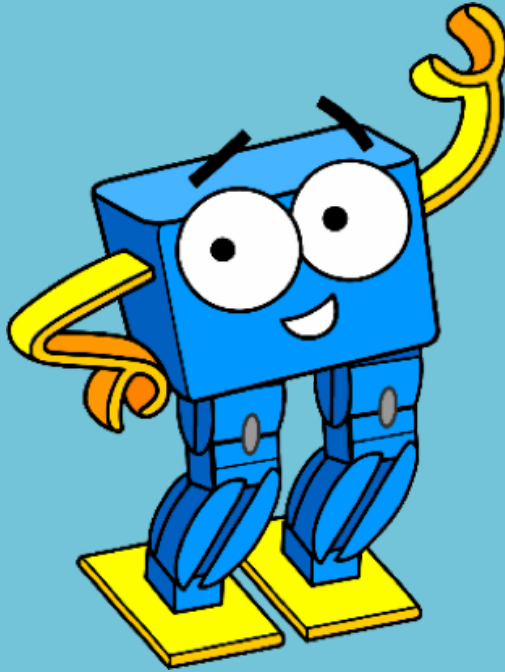


STUDENT WORKBOOK



INTRODUCTION TO MARTY AND SCRATCH

STUDENT NAME

LESSON 1

INTRODUCTION TO MARTY THE ROBOT

1 Write down your own definition of a *robot*

2 Research your favourite robot & fill in the blanks

Robot Name:

What does it do?

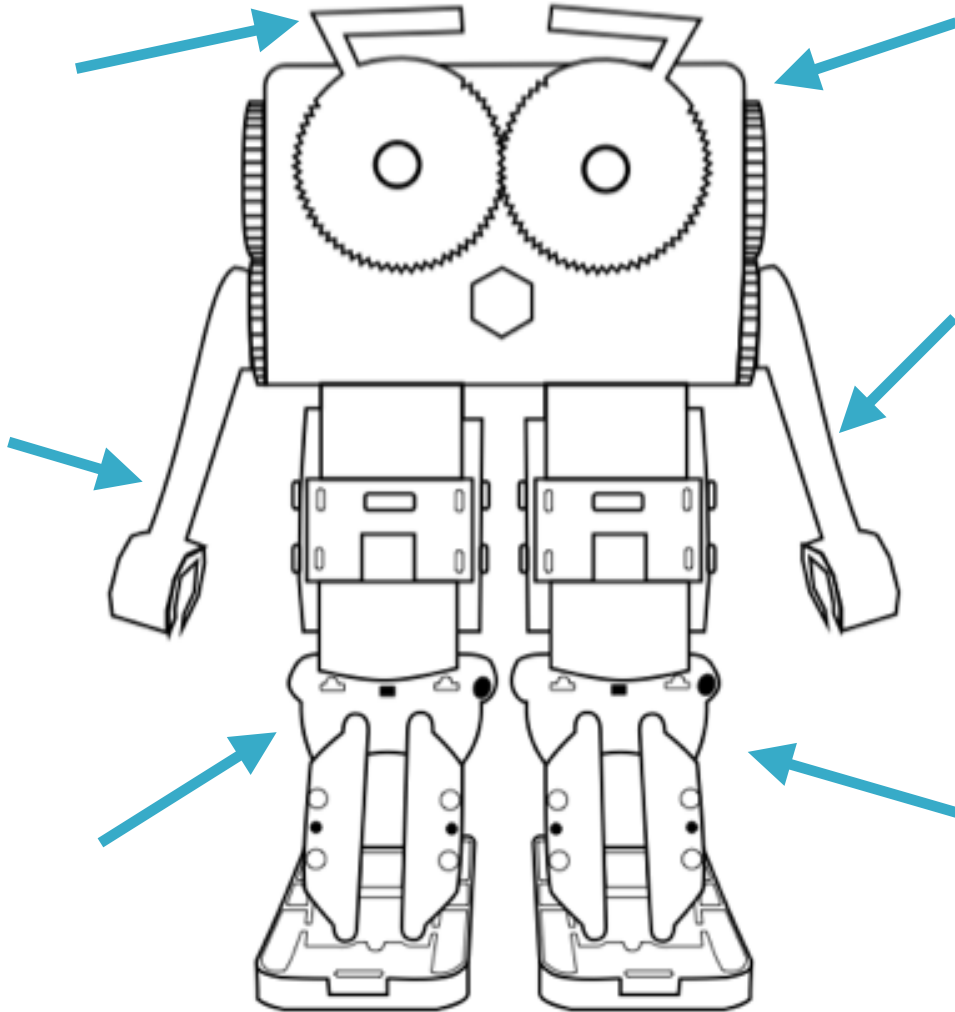
Draw a picture

Why it's my favourite robot

3 What makes up a robot?

Label the different body parts that make up Marty

Colour in the body parts that you think will be able to **move**



4 Complete today's reflection

One thing I enjoyed

One thing I want to do
more of next time

LESSON 2

INTRODUCTION TO PROGRAMMING

1 Create your own Marty Says action cards

Draw out the position Marty will be in

Write down the steps to put Marty into that position

Test out your new Marty action cards

Draw the Marty action here

Draw the Marty action here

Steps to program Marty

Steps to program Marty

2 Complete today's reflection

My favourite Marty pose
was...

The Marty pose I haven't
tried yet is...

LESSON 3

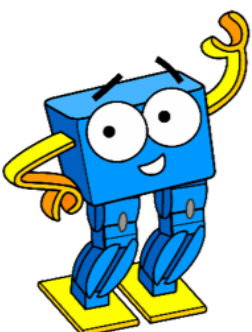
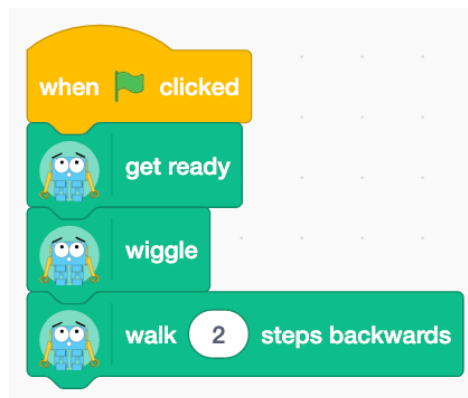
GETTING COMFORTABLE WITH SCRATCH

1 What does *debugging* mean?

2 Debugging with Marty

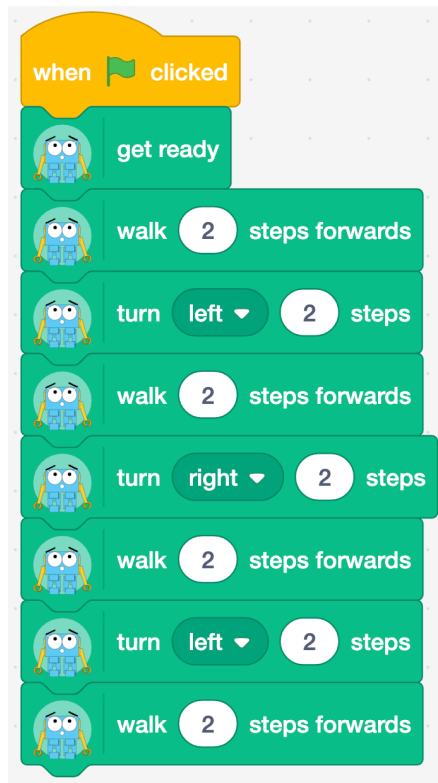
Marty has been programming again but has some bugs in some of the programs - can you help Marty fix them?

Marty wants to create a program to start off with a wiggle followed by taking 2 steps forwards - can you find what's wrong with this piece of code?



Don't forget to test your solutions!

This next program Marty wants to create would help Marty to walk in a square shape - what's going wrong in the code below?



```
when clicked
  get ready
  walk 2 steps forwards
  turn left 2 steps
  walk 2 steps forwards
  turn right 2 steps
  walk 2 steps forwards
  turn left 2 steps
  walk 2 steps forwards
```

The code consists of eight blocks: a yellow 'when clicked' block, followed by seven green blocks. The sequence of actions is: 'get ready', 'walk 2 steps forwards', 'turn left 2 steps', 'walk 2 steps forwards', 'turn right 2 steps', 'walk 2 steps forwards', 'turn left 2 steps', and 'walk 2 steps forwards'.

3 Complete today's reflection

One thing I enjoyed today..

One thing I want to spend more time looking into

One thing I want to try programming Marty to do...

LESSON 4

MARTY DANCE PARTY

1 Plan your dance routine out

Use the space below to plan out your dance routine.

How many different Marty moves can you include in your routine?

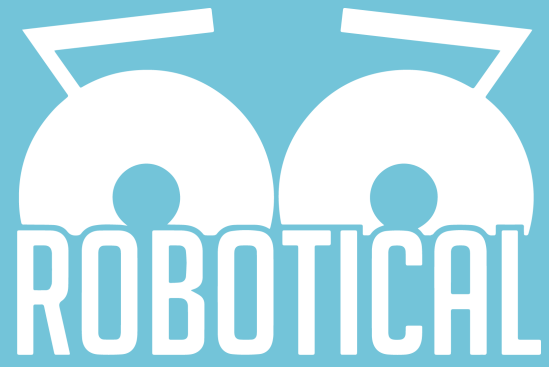
2 Complete today's reflection

What I like about my teams dance routine...

If we had more time I would change/add...

What do you like about programming?

What do you dislike about programming?



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