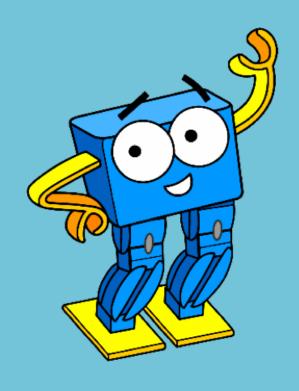
STUDENT WORKBOOK



GETTING LOOPY USING PYTHON

STUDENT NAME

WORD BANK

WORDS TO REMEMBER!

WORD	DEFINITION
Loop	
Flowchart	
While Loop	
Condition	
For Loop	
User Input	

LESSON 1 A LOOPY INTRODUCTION

Write instructions for someone to walk in a square				
You need to break down your instructions so that a robot could follow them				
Highlight the commands that are repeated				
Adapt the instructions above to include a loop				

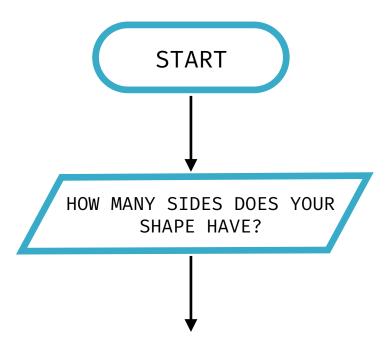
Breaking down flow charts

Match up the flow chart shape to the name

	DECISION
	START/STOP
	INPUT/OUTPUT
	PROCESS
Describe what a flow chart is used for	

4

Complete the flow chart below to plan out your shape guessing program



Complete today's reflection

5

One thing I enjoyed	What I found challenging

LESSON 2 REMOTELY OPERATED MARTY

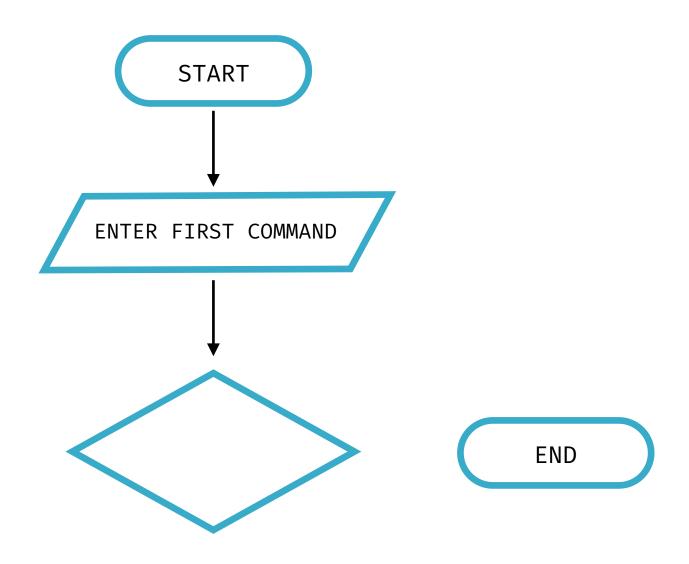
1	Remotely	/ Operated	Vehicles	or Robots
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Why might we want to use a remotely operated vehicle or robot?

Reasons for using remotely operated vehicle/robots				
Environments remotely operated vehicles/robots might be used in	Definition of remotely operated vehicles/robots			

Complete the flow chart for designing a text-based remote control **Think about how a while loop works to do this**

Mark on the flowchart where the while loop STARTS and ENDS



Run command and ask for next command

One thing I learned

Something to ask next time

One thing I want to research about remotely operated vehicles/robots

LESSON 3 GUESS THE NUMBER

1 For vs While Loops

Based on the description, decide whether a for or while loop is needed

Repeatedly asking the user to enter the correct password

FOR / WHILE

Repeating arm movements to create a handshake motion

FOR / WHILE

Letting the user enter commands a specific number of times

FOR / WHILE

Asking the user for input until they enter **stop**

FOR / WHILE

Remember to use the correct shapes based on the type of action

One thing I didn't understand

One thing I like about my game so far

LESSON 4 GUESS THE NUMBER CONTINUED

1	Use this	space to	plan v	your g	ame
				,	

Consider how you can improve your game or make it more difficult

PLANNING SPACE	
IDEAS FOR EXTENDING MY GAME	

One thing I'm proud of in my game

One challenge that I tackled

