C1

Getting to Know micro:bit V2

CHAPTER ASSIGNMENT

Name _____ Class _____ No. _____ Date _____

> Answer every question in the space given. Show your working. You may use the chapter page to help you.

Questions from the Guru Jazzy micro:bit chapter page.

Activity · Know your board

1. Hold a micro:bit V2 and find each of these without looking at the page: the 5×5 LED display, button A, button B, the gold touch logo, the speaker, the microphone, the reset button, the USB socket and the battery connector. Tick each one off as you find it.

2. Turn the board over. Which chip runs your program, and which one looks after the USB connection? Write what each one does.

3. Decide whether your board is V1 or V2, and write down the two things on it that told you.

4. Plug the board into a computer. What appears on the computer, and what is in `DETAILS.TXT`? Write the firmware version you find.

Activity · Your first program

5. In MakeCode, build this program, then send it to the board:

```
on start:
    show string "HELLO"
forever:
    show icon (Heart)
    pause (ms) 200
    show icon (SmallHeart)
    pause (ms) 200
```

Write what happens when you press the reset button, and explain why the greeting only appears once.

6. Run the same program in the simulator before downloading it. Write one thing the simulator can do that the real board cannot, and one thing the real board can do that the simulator cannot.

7. Pair the board with WebUSB, then download again. How is this different from dragging the `.hex` file onto the MICROBIT drive?

Check yourself

1. The micro:bit has 25 LEDs. Why is that enough to show a whole sentence?

2. Name three sensors that are already on the board, and one thing you could measure with each.

3. What is the difference between the code you write and the `.hex` file the board runs?

4. A classmate's board shows nothing at all when plugged in. Write two things you would check first.

5. Name one thing you would like to build with a micro:bit, and the parts of the board it would use.

Chapter quiz

1. Who started the Micro:bit project?
   A) Microsoft B) The BBC C) INEX D) Arduino

2. How many LEDs does the display have?
   A) 5 B) 16 C) 25 D) 32

3. Which part lets the Micro:bit notice that you shook it?
   A) The compass B) The accelerometer C) The USB chip D) The reset button

4. What does the KL27 chip on the back of the board do?

A	B	C	D
Runs your program	Handles USB and programming	Lights the LEDs	Measures temperature

5 Which of these does a V2 board have that a V1 board does not?

A) Button A B) A microphone and speaker C) A USB port D) An LED display

---

6 You want to drag blocks and then switch to text. Which editor do you use?

A) MakeCode B) Mu C) Notepad D) The Android settings app

---

7 Which language does the MicroPython option use?

A) C B) Java C) Python D) Scratch

---

8 What file do you put on the Micro:bit to run a program?

A) .png B) .hex C) .docx D) .csv

End of assignment · Check your answers against the chapter at gurujazzy.com/subjects/microbit/chapter-1-meet-the-microbit/