# Lesson 2 – Getting Started With micro:bit and MicroPython

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| The Big Picture – Why Is This Relevant? | Learning Objectives |
| * IDEs enable you to create, edit and test code. This lesson looks at the main features and introduces two basic features, scroll text and using images. | * Know what an IDE is * Scroll text on the micro:bit * Display images on the micro:bit |
| Engagement – How Can I Engage Learners? | Assessment for Learning |
| * Display an image on the micro:bit as the Learners enter the class * Use the fun images * Make a badge * Discuss the use of LEDs to create signs and displays | **Expected Progress:**   * Learners can scroll the ‘Hello, World’ message * Learners display the demonstration image   **Good Progress:**   * Learners can scroll your own message * Learners display an image of your choice   **Exceptional Progress:**   * Learners can scroll two or more messages * Learners display two or more messages |
| Key concepts | Key words |
| * What is an IDE * Scrolling text * Displaying Images | * Mu * IDE |
| Differentiation | Resources |
| Most Learners will be able to follow the instructions  however, adding a program to a microcontroller  maybe a new concept to some Learners and they may  need support with getting the files onto the micro:bit  initially. | * Lesson 2 ppt * Lesson 2 Activity Sheet * L2\_scroll\_text python file * 1 micro:bit per Learner * 1 USB cable to connect the micro:bit to a PC * A PC * Access to <https://python.microbit.org/v/1.1> |
| Lesson Flow | |
| * Introduction to what an IDE is * Show Learners how to log on and load MU * Teacher demonstration of scrolling ‘Hello, World’ program * Learners try and download to their micro:bit * Teacher demonstration of displaying images on the micro:bit * Learners try and download to their micro:bit * Learners work through the activity sheet independently; teacher intervenes where appropriate * Encourage more advanced Learners to attempt the stretch tasks once they complete main task * Learners complete Activity Sheet * Teacher recap of the features of an IDE | |
| Making | |
| No making activities in this lesson. | |