# Lesson 1 – Introduction to the Course

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| The Big Picture – Why is this Relevant? | Learning Objectives |
| * Physical computing is the future * Programming is an important skill; learners demonstrate much more creativity and engagement when working with physical devices | * Understand what a micro:bit is * Understand how the course is to be assessed * Understand the current knowledge that learners have of the topics covered in the course |
| Engagement – How Can I Engage Learners? | Assessment for Learning |
| * Inspire learners by explaining some of the practical solutions that they will develop throughout the course * Learners will be inspired to be able to achieve a qualification through completing the course * Learners will be able to complete some problem-solving activities through completing the baseline assessment | **Expected Progress:**   * Learners will understand the structure of the course and how it is assessed   **Good Progress:**   * Learners will be able to complete most of the baseline assessment questions   **Exceptional Progress:**   * Learners will successfully complete the baseline assessment and independently explore MakeCode |
| Key Concepts | Key Words |
| * A micro:bit is a microcontroller | * micro:bit * Microcontroller * Assessment * Programming * Physical computing |
| Differentiation | Resources |
| This is an introductory lesson to highlight the structure of the course. If any students complete the baseline assessment before the end of the session then they should independently explore the MakeCode website. | * Lesson 1 ppt * Lesson 1 Input and Output Devices Worksheet * Baseline Assessment * micro:bit * Access to <https://makecode.microbit.org> |
| Lesson Flow | |
| * Introduce students to the course. Highlight the project-based learning approach along with some of the exciting projects that they will be working on * Show students the physical micro:bit computer. Explain that the micro:bit is a microcontroller. Students should try to identify some of the input and output devices which are included in the micro:bit. The image of the micro:bit on the ppt could be used to support this. The worksheet gives them a structure for this exercise * Discuss how the course will be assessed along with the grades that are available * Highlight how specific awards will be made at the end of each project. The ppt could be used to support this * Learners should complete the baseline assessment. If any learners complete this quickly then they could independently explore the MakeCode website | |
| Making | |
| There are no making activities in this lesson. | |