Course Introduction

arm School Program

Lesson 1

Course Overview

- Learn to write your own computer programs - **programming**
- Develop a range of **physical computing** solutions using a **micro:bit**
- Throughout the course you will develop a range of products including a temperature sensor, radio communication device, rock:paper:scissors game
- Work towards achieving a qualification

Assessment Structure

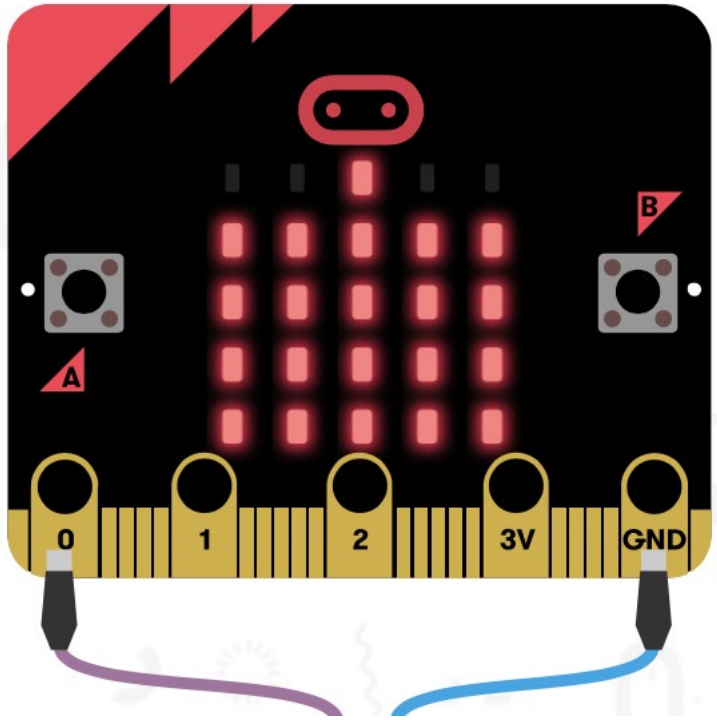
- You will be assessed through completing a range of practical activities as well as answering a number of short answer and multiple choice questions
- At the end of each project awards will be made for various categories including:
  - Best teamwork
  - Most sophisticated programmed solution
  - Best designed solution
  - Perseverance, amongst others
- The projects that you complete throughout the course are worth 20% of the overall qualification

Assessment Objectives and Grading

- Your work will be assessed against the following criteria:
  - Demonstrate knowledge and understanding of technology
  - Apply knowledge and understanding of technology
  - Analyse and evaluate problems
  - Demonstrate application of knowledge and understanding to solve problems
- All learners will receive a certificate of completion at the end of the course
- In addition, you will receive a grade based on the final **assessment**. This will be Pass, Intermediate, Higher. Anyone who does not receive the necessary mark for a Pass will receive a U

The micro:bit

- The micro:bit is an example of a **microcontroller**
- It contains a number of input and output devices
- The purpose of an input device is to allow data to be transferred into the computer system
- The purpose of an output device is to transfer the data out of the system
- **Activity:** using your micro:bit have a look at the different parts of the device. Can you identify any input or output devices? You should make a note of these on the worksheet



Thank You
Danke
Merci
谢谢
ありがとう
Gracias
Kiitos
감사합니다
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6