

Intro to Computing with micro:bit National Curriculum Mapping

National Curriculum Programme of Study	Lesson(s) Covered
design, use and evaluate computational abstractions	Intro to Computing with micro:bit: 3
that model the state and behaviour of real-world	mare to compating with microsoftic
problems and physical systems	Sensors and Radio:
	IoT Intro: 13, 15, 16, 19, 23, 24
understand several key algorithms that reflect	Intro to Computing with micro:bit:
computational thinking [for example, ones for sorting	
and searching]; use logical reasoning to compare the	Sensors and Radio:
utility of alternative algorithms for the same problem	
	loT Intro: 21, 22
use 2 or more programming languages, at least one of	Intro to Computing with micro:bit: 1,5, 6
which is textual, to solve a variety of computational	Conservation 7 40
problems; make appropriate use of data structures	Sensors and Radio: 7, 10
[for example, lists, tables or arrays]; design and develop modular programs that use procedures or	IoT Intro: 20, 22
functions	101 111110. 20, 22
understand simple Boolean logic [for example, AND,	Intro to Computing with micro:bit: 4
OR and NOT] and some of its uses in circuits and	man to companing man more order
programming; understand how numbers can be	Sensors and Radio:
represented in binary, and be able to carry out simple	
operations on binary numbers [for example, binary	IoT Intro: 17
addition, and conversion between binary and	
decimal]	
understand the hardware and software components	Intro to Computing with micro:bit: 1, 2
that make up computer systems, and how they	
communicate with one another and with other	Sensors and Radio: 8, 9
systems understand how instructions are stored and executed	loT Intro: 14, 19
within a computer system; understand how data of	Intro to Computing with micro:bit: 2
various types (including text, sounds and pictures)	Sensors and Radio:
can be represented and manipulated digitally, in the	Sensors and reado.
form of binary digits	IoT Intro: 17, 18
undertake creative projects that involve selecting,	Intro to Computing with micro:bit: 5, 6
using, and combining multiple applications, preferably	, ,
across a range of devices, to achieve challenging	Sensors and Radio: 7, 11, 12
goals, including collecting and analysing data and	
meeting the needs of known users	IoT Intro: 15, 16, 23, 24
create, reuse, revise and repurpose digital artefacts	Intro to Computing with micro:bit:
for a given audience, with attention to	Sensors and Radio: 9, 11, 12
trustworthiness, design and usability	
understand a manage of constant and the first	loT Intro: 13, 15, 16, 23, 24
understand a range of ways to use technology safely,	Intro to Computing with micro:bit:
respectfully, responsibly and securely, including	Sensors and Radio: 8
protecting their online identity and privacy; recognise inappropriate content, contact and conduct, and	SCIISOIS AIIU NAUIU. O
know how to report concerns	IoT Intro: 14
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