Lesson 1

1. **Which of these can be used as inputs for a Micro: bit**

A Screen

B Pins

C Bluetooth

D USB

1. **Identify the output that can be attached to a Micro: bit**

A Buzzer

B Microphone

C Bluetooth

D USB

1. **Which of these is an example of computational thinking?**

A Decomposition

B Decision Making

C Chunking

D Deconstructing

1. **How is data that is outputted from a system re-used within the system**

A It can’t be

B Return

C Feedback

D Loopback

1. **An accelerometer can detect the orientation of the Micro: bit. What type of signal is being recorded?**

A Digital

B Integer

C Analogue

D Lumens

1. **How many different values can a digital sensor return?**

A 1

B 2

C 3

D 4

1. **How many key programming constructs are there?**

A 1

B 2

C 3

D 4

1. **Which type of loop would be used to complete an action until a change happens**

A While Loop

B Count Controlled Loop

C For Loop

D Conditional Loop

1. **Which does this describe?**

A methodology that uses a cycle of prototyping, testing, analysing and refining to improve the quality and functionality of a design

A Mass production

B Fetch, Execute Cycle

C Design Methodology

D Iterative Design Cycle

1. **Which of the following are wireless data transmission methods built into a Micro: bit?**

A Bluetooth

B Ethernet

C Wi-Fi

D Infra-red

1. **Which of these are benefits of smart traffic lights?**

A Environmental improvements

B Power Saving

C Decreased Congestion

D Reduces Accidents

1. **Identify which of these are classed as material properties**

A Conductivity

B Durability

C Toughness

D Stiffness

1. **What is the purpose of a Resistor?**

A Store Current

B Store Voltage

C Store Electrical Charge

D Regulate the flow of electrical current

1. **Which of these are classed as using an Embedded System?**

A Personal Computer

B Microwave Oven

C Laptop

D Mechanical Clock

1. **Which are NOT components of a SWOT analysis**

A Opportunities

B Strengths

C Weakness

D Time

**An Application of AI based around that given enough data and new data that the machine takes in it a learn for itself is a definition of what?**

A Artificial Intelligence

B Machine Learning

C Computer Control Systems

D Robotics

**Answer**

1 B

2 A

3 A

4 C

5 C

6 B

7 C

8 D

9 D

10 A

11 A,C & D

12 A,B, & C

13 D

14 B

15 D

16 B