Design and Technology Curriculum Journey

Electrical Systems

Reception

Year 1

Year 2

Year 3

I can make and use a simple circuit.

I can program a computer to control the product.

(BBC MICRO: BITS—DIWALI LIGHT)

Year 4

I can use a number of components in a circuit.

I can program a computer to control the product

(BBC MIRCO: BITS—NIGHT LIGHT)

Year 5

I can confidently use a number of components in a circuit.

I can program a computer to monitor changes in the environment and control the product.

(BBC MIRCO: BITS- LIGHTS FOR MONSTER/DRAGON EYES)

Year 6

I can use different types of circuits in the product.

I can think of ways in which adding a circuit would improve the product.

I can program a computer to monitor the changes in the environment and control the product.

(BBC MIRCO:BITS—FAIRGROUNDS)

Year 7

I understand how more advanced electrical and electronic systems can be powered and used in their products [for example, circuits with heat, light, sound and movement as inputs and outputs].

I can apply computing and use electronics to embed intelligence in products that respond to inputs [for example, sensors], and control outputs [for example, actuators], using programmable components [for example, microcontrollers].