



Lesson 2.1 Summative Assessment Answer Key

1. Green: 1,2
2. Red: 5,6
3. Blue: 9,10
4. Yellow: 13,14
5. B: Closed
6. C: battery, wires, buttons
7. A: The circuit was closed and electric current is flowing through both pins.
8. C: Jumper wires are made of a metal internal substance that conducts electricity and a protective insulator cover that does not. They are used to complete a circuit between devices.

Lesson 2.2 Summative Assessment Answer Key

1. B: LED
2. D: All of these are inputs
3. C: A button is pressed and a switch is pushed into one of two positions.
4. B: Electricity can be controlled to behave like binary and either have voltage of 1 = ON, 0 = OFF
5. C: Buttons and switches cannot control the flow of electricity.
6. A: To complete the circuit, electricity flows from the GPIO to the component on one wire, and from the component back to the GPIO on the other wire.
7. B: The game is programmed to detect the state of the electricity going into the pin connected to the switch or button

Lesson 2.3 Summative Assessment Answer Key

1. A: TRUE
2. D: Polarity has no effect on magnetic fields.
3. B: The short one
4. C: There is only one kind of piezo buzzer.
5. (Matching) 3 = d, 2= a, 1=b, 4=c
6. A: The current is not flowing.
7. A: TRUE

Lesson 2.4 Summative Assessment Answer Key

1. A: Series
2. C: If one component fails, they all fail.
3. (Matching) 1=b, 2=a, 3=c
4. Electrons
5. C: (Diagram of a closed switch and completed circuit)
6. B: If one light is broken, the other lights will stay lit.