



Lesson 2.2 Summative Assessment Questions

- Which of these is classified as an output?
 - Switch
 - LED
 - Button
 - All of these are outputs
- Which of these is an input?
 - Switch
 - Mouse
 - Button
 - All of these are inputs
- What is the relationship between switches and buttons?
 - A switch completes a circuit but a button does not.
 - A button completes a circuit but a switch does not.
 - A button is a type of switch that can be pressed to complete a circuit.
 - A button can be pressed in a game but switches can't.
- Which of these best describes what occurs with the electrical current flow when switches are turned on and off?
 - Current flows to the right when the switch is On and flows to the left when the switch is Off.
 - Current can be controlled to behave like binary and either be 1 = ON or 0 = OFF
 - Current flow cannot be controlled by turning a switch on or off.
 - Current runs through a circuit even when a switch it turned off.
- Which of these statements is FALSE about the control of electricity for buttons and switches?
 - The button in our circuit needs to be held down to allow electricity to flow.
 - Switches hold a binary number (1 or 0) depending on the position of the switch (On or Off).
 - Buttons and switches cannot control the flow of electricity.
 - Buttons and switches control the flow of electricity when turned on and off.
- Why do we need two wires per component connected on the breadboard?
 - 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.
 - Because one wire would be lonely without the other.
 - In case one breaks we have a spare.
 - To complete the circuit, electricity flows from the GPIO through both wires to the component.
- Which of these best describes how the game knows a switch or button is pressed?
 - The game doesn't know, it is programmed to randomly do stuff every second
 - The game is programmed to detect the state of the electricity going into the pin connected to the switch or button
 - The game reads minds and knows what we intended to do
 - The game is programmed to turn the output devices of switch and button on and off