

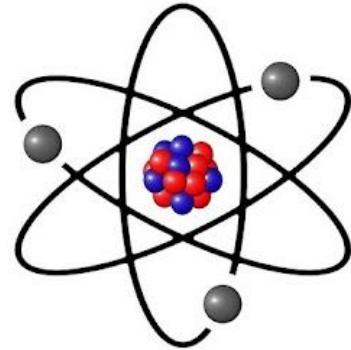


Electronics/Coding Level 3 Quiz – Answer Key

1) What part of the atom moves in an electrical circuit?

Select one:

- a) Protons
- b) Neutrons
- c) **Electrons**



2) Conductors allow electrons to flow freely between atoms, while insulators do not allow electrons to move between atoms.

Select one:

- a) **True**
- b) False

3) An open circuit will allow electrons to flow?

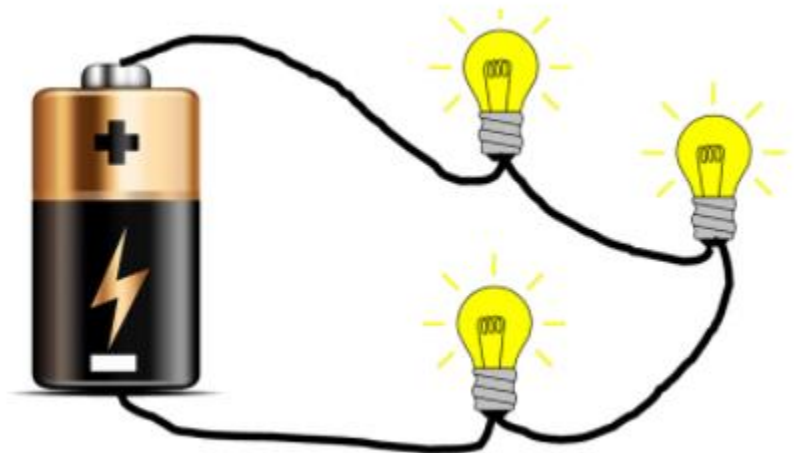
Select one:

- a) True
- b) **False**

4) All of the electrons in this circuit travel the same path. Is it a series or parallel circuit?

Select one:

- a) **Series**
- b) Parallel





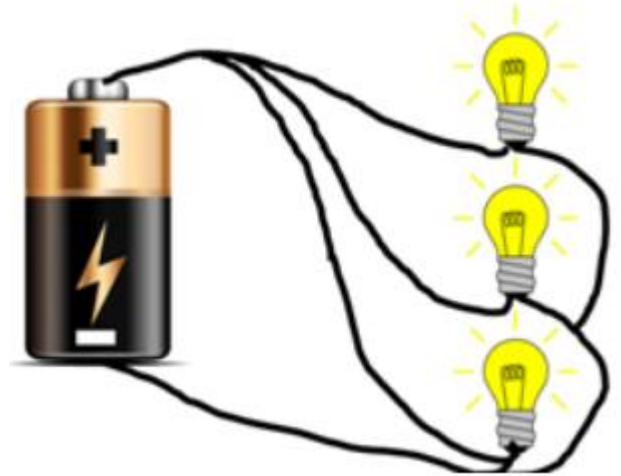
Name: _____

Period: _____

- 5) Each component's electrons in this circuit have their own path back to the battery. Is it series or parallel?

Select one:

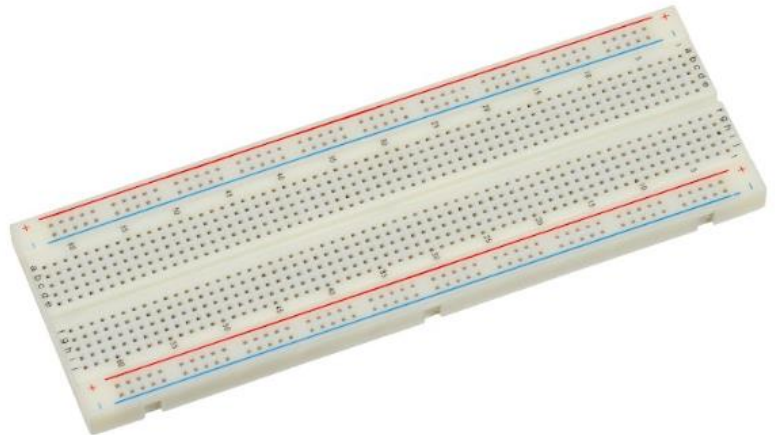
- a) Series
- b) Parallel



- 6) The long rows on the sides of a breadboard are all connected to each other. What are they called?

Select one:

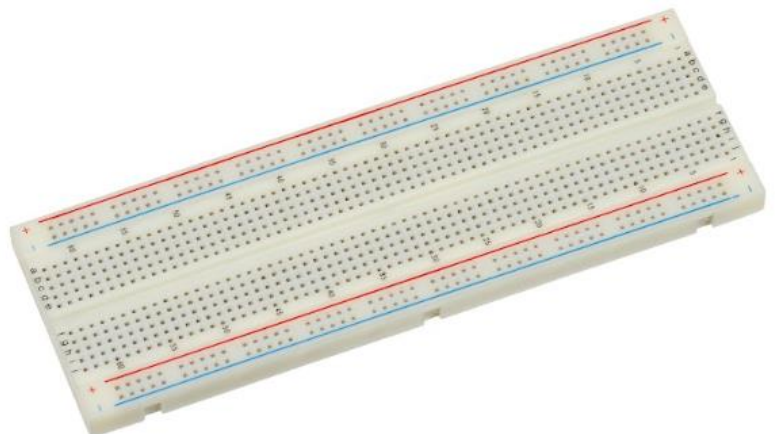
- a) Power Rails
- b) Terminal Strips



- 7) The short rows of 5 pins running down the center of the breadboard are called.

Select one:

- a) Power Rails
- b) Terminal Strips





8) Which of the following Arduino components are INPUTS?

Select one:

- a) GND
- b) 5V
- c) Analog Pins
- d) Digital Pins

9) LEDs are polarized, so they will only work if...

Select one:

- a) The anode (long side) is positive and the cathode (short side) is negative.
- a) The cathode (short side) is positive and the anode (long side) is negative.
- b) It doesn't matter which side goes where as long as the circuit is connected.



10) Resistors are used to limit the flow of electrons through a circuit.

Select one:

- a) True
- b) False