

1. Pressure in a water pump system is analogous to what concept in an electrical circuit?

- ☐ resistance
- ☒ voltage
- ☐ capacitance
- ☐ current

2. A narrow pipe in a water system is analogous to what concept in an electrical circuit?

- ☒ resistance
- ☐ voltage
- ☐ capacitance
- ☐ current

3. Electrical current is measured in:

- ☐ ohms
- ☐ coulombs
- ☒ Amperes
- ☐ volts

4. Electrical resistance is measured in:

- ☒ ohms
- ☐ coulombs
- ☐ Amperes
- ☐ volts

5. An LED is reverse-biased when:

- ☐ the voltage across it does exceed its threshold
- ☐ the anode and cathode have the same voltage
- ☐ current flows through the LED
- ☒ the anode is negative with respect to the cathode

6. The function of a potentiometer is to:

- ☐ measure the resistance between two points in the circuit
- ☐ measure the voltage between two points in the circuit
- ☒ vary the resistance between points in the circuit
- ☐ complete an open circuit

7. True or False: All of the holes in a column on the side of a breadboard are electrically connected.

- ☒ True
- ☐ False

8. True or False: When resistance increases and current is held constant, voltage also increases.

- ☒ True
- ☐ False