

# Snap Circuits Introduction Quiz

⚠ This is a preview of the draft version of the quiz

Started: Apr 24 at 7:43am

## Quiz Instructions

Read pages 1-6 from the Snap Circuits Manual before completing the quiz.

### Question 1

1 pts

Which of the following are basic trouble shooting suggestions from the manual? Choose all that apply.

- Use page 6 of the manual to systematically determine if any components need to be replaced
- Ask Mr. Barker what the problem without thinking about it first.
- Double check your assembly to see that it exactly matches the drawing.
- Ask another group what they did.
- Be sure that parts with positive/negative markings are positioned as per the drawing.
- Be sure that all connections are securely snapped.

### Question 2

1 pts

It is OK to touch the motor fan while it is turning at a high speed.

- True
- False

### Question 3

1 pts

You should launch the fan at people, animals, or objects. And it is OK to lean over the motor while it is running.

- True
- False

**Question 4****1 pts**

The power source block number is \_\_\_\_\_.

- B1
- M1
- A1
- C1
- R1
- S1

**Question 5****1 pts**

After each project your group should take a photo of the completed project. The project number should be included in the frame of the photo. All project must be submitted to CANVAS in order to receive credit.

- True
- False

**Question 6****1 pts**

Why should you avoid a short circuit? Choose all that apply.

- short circuits quickly drain the batteries
- short circuits may damage electrical components
- short circuits could create an artificial intelligence

**Question 7****1 pts**

An LED (D1) is a light emitting diode and may be thought of as a special one-way light bulb. LEDs block electricity in the reverse direction.

- True
- False

**Question 8****1 pts**

The LED (D1) is will not easily burn out due to high current.

- True
- False

**Question 9****1 pts**

Inside the motor (M1) are three coils of wire with many loops and a permanent magnet.

- True
- False

**Question 10****1 pts**

The whistle chip (WC) contains \_\_\_\_\_ thin plates that can vibrate.

 3 6 5 2 4**Question 11****1 pts**

Always include at least one component that will limit the current through a circuit.

 True False**Question 12****1 pts**

Components that can limit the current through a circuit are speakers, lamps, whistle chips, ICs, motors, photoresistors, or resistors.

 True False**Question 13****1 pts**

Use LED ans switches in conjunction with other components that will limit the current through them.

- True
- False

**Question 14****1 pts**

If something appears to get hot, do NOT disconnect your batteries immediately and check your wiring.

- True
- False

**Question 15****1 pts**

IC stands for integrated circuit which are system f super-miniaturized electrical components.

- True
- False

**Question 16****1 pts**

It does not matter how you connect integrated circuits (aka ICs), they will work regardless of how the project instructions indicate they should be connected.

- True

False

**Question 17****1 pts**

It is OK to leave your circuit unattended when it is turned on.

True

False

**Question 18****1 pts**

The order of parts connected does not matter- what does matter is how the combinations of the components are arranged together.

True

False

**Question 19****1 pts**

A short circuit is when a very low-resistance path exists between the negative and positive terminals of the battery.

True

False

**Question 20****1 pts**

You do not need to take turns constructing the circuits. In other words, one person can do all the hands on work while everyone else watches.

True

False

Not saved

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