

Name:

Date:

Class:

Exit Ticket **Answer Key** (Sample Student Responses)

Q1. What materials in your model helped marbles flow easily? Why?

A1. Foil and straws, because they were smooth like conductors in real devices.

Q2. What does a marble getting stuck or slowed down represent in a real memristor?

A2. It shows resistance, something blocking or slowing the flow of electrons.

Q3. Why do scientists test different materials when designing electronics like memristors?

A3. Because different materials can make devices faster, smaller, or store memory better.

Q4. What did you change between your first and last design, and what was the result?

A4. We replaced paper with foil, and the marbles moved faster through the maze.

Circle one: *Answers will vary.*

I can explain what a memristor is.

Yes / Not Yet

I can describe how scientists design materials using computers.

Yes / Not Yet

I can model a scientific idea using everyday materials.

Yes / Not Yet

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