

Science 9 Term 1 Exam Review

Science · Answer Key · 12 Questions

1. What is defined as the tendency of an object to resist a change in its state of motion?

- A) Force
- B) Inertia**
- C) Acceleration
- D) Velocity

2. What causes a change in an object's state of motion?

- A) Balanced forces
- B) An unbalanced force**
- C) Mass
- D) Gravity

3. When a bus suddenly moves forward, why does a passenger appear to lean backward?

- A) Because their body tends to remain at rest**
- B) Because the bus is accelerating
- C) Because of friction
- D) Because of gravity

4. Which of the following represents a change in motion?

- A) Constant speed in a straight line
- B) Changing speed
- C) Changing direction
- D) Both changing speed and direction**

5. What is the unit of electrical resistance?

- A) Volt
- B) Ampere
- C) Ohm**
- D) Watt

6. If voltage remains constant, what happens to current as resistance increases?

- A) Current increases
- B) Current decreases**
- C) Current stays the same
- D) Current stops completely

7. How many paths for current does a series circuit have?

- A) One**
- B) Two
- C) Three
- D) Infinite

8. What happens in a series circuit if one bulb is removed or fails?

- A) The other bulbs get brighter
- B) The other bulbs stay on
- C) The other bulbs go out**
- D) Nothing changes

9. What is the primary characteristic of a parallel circuit?

- A) One path for current
- B) Multiple paths for current**
- C) No resistance
- D) Only one component

10. In a parallel circuit, if one bulb fails, what happens to the others?

- A) They turn off
- B) They flicker
- C) They continue to work**
- D) They become dimmer

11. What is electromagnetic radiation?

- A) Energy transmitted through waves**
- B) Heat transferred by friction
- C) Flow of electrons in a wire
- D) Sound traveling through air

12. Which of the following is an example of electromagnetic radiation?

- A) Sound waves
- B) X-rays**
- C) Ocean waves
- D) Wind