

Historical Milestones in Chemistry

Chemistry · Practice Test · 8 Questions

1. In 1869, which scientist published the first version of the periodic table, famously leaving gaps for elements that had not yet been discovered, such as gallium and germanium?

- A) Dmitri Mendeleev
- B) Lothar Meyer
- C) John Newlands
- D) Henry Moseley

2. Who was the first person to isolate the element fluorine in its gaseous state in 1886, a feat that had previously led to the death or injury of several researchers?

- A) Humphry Davy
- B) Henri Moissan
- C) Carl Wilhelm Scheele
- D) Joseph Louis Gay-Lussac

3. The 'phlogiston theory,' a discredited scientific theory that proposed a fire-like element was contained within combustible bodies, was definitively debunked by which chemist's work on oxygen?

- A) Robert Boyle
- B) John Dalton
- C) Antoine Lavoisier
- D) Jöns Jacob Berzelius

4. Which female scientist was the first person to win Nobel Prizes in two different scientific fields, specifically Physics (1903) and Chemistry (1911)?

- A) Dorothy Hodgkin
- B) Irène Joliot-Curie
- C) Lise Meitner
- D) Marie Curie

5. In 1828, Friedrich Wöhler famously synthesized urea from inorganic starting materials, effectively shattering which long-held chemical doctrine?

- A) Vitalism
- B) The Law of Definite Proportions
- C) The Law of Conservation of Mass
- D) Atomic Theory

6. Ernest Rutherford's 1909 gold foil experiment led to the discovery of which fundamental structure of the atom?

- A) The electron cloud
- B) The atomic nucleus
- C) The neutron
- D) The valence shell

7. Which scientist is credited with the discovery of 'heavy water' (deuterium oxide) in 1931, for which he was awarded the Nobel Prize in Chemistry in 1934?

- A) Harold Urey
- B) Gilbert N. Lewis
- C) Frederick Soddy
- D) William Ramsay

8. Before the modern symbol system was adopted, which chemist proposed the use of letters to represent elements (e.g., O for Oxygen, C for Carbon) in the early 19th century?

- A) Amedeo Avogadro
- B) Jöns Jacob Berzelius
- C) Stanislao Cannizzaro
- D) John Dalton