

Milestones in Chemical Discovery

Advanced Chemistry · Answer Key · 10 Questions

1. Who is credited with the discovery of the element fluorine in 1886, after many failed attempts by others?

- A) Henri Moissan**
- B) Marie Curie
- C) Humphry Davy
- D) Dmitri Mendeleev

2. Which chemist is known for the first successful synthesis of urea from inorganic materials in 1828, challenging vitalism?

- A) Louis Pasteur
- B) Friedrich Wöhler**
- C) Antoine Lavoisier
- D) Robert Boyle

3. What was the first synthetic plastic invented by Leo Baekeland in 1907?

- A) Nylon
- B) Polyethylene
- C) Bakelite**
- D) Polystyrene

4. In 1913, who introduced the concept of atomic number to organize the periodic table, replacing atomic weight?

- A) Ernest Rutherford
- B) Niels Bohr
- C) Henry Moseley**
- D) John Dalton

5. Which scientist is recognized for isolating the first noble gas, argon, from the atmosphere in 1894?

- A) Lord Rayleigh**
- B) Linus Pauling
- C) Gilbert N. Lewis
- D) Svante Arrhenius

6. The Haber-Bosch process, invented in the early 20th century, revolutionized chemistry by enabling the industrial synthesis of what?

- A) Sulfuric acid
- B) Ammonia**
- C) Sodium carbonate
- D) Ethanol

7. Who was the first person to isolate an enzyme in pure crystalline form, proving that enzymes were proteins?

- A) James B. Sumner**
- B) Rosalind Franklin
- C) Dorothy Hodgkin
- D) Linus Pauling

8. What is the name of the first synthetic dye, accidentally discovered by William Henry Perkin in 1856?

- A) Indigo
- B) Mauveine**
- C) Alizarin
- D) Congo Red

9. Which chemist first identified the phenomenon of radioactivity while studying uranium salts in 1896?

- A) Pierre Curie
- B) Marie Curie
- C) Henri Becquerel**
- D) Ernest Rutherford

10. In 1869, who published the first version of the Periodic Table of Elements, leaving gaps for elements yet to be discovered?

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