

Historical Milestones in Chemistry

Chemistry History · Answer Key · 25 Questions

1. Which scientist is credited with the discovery of oxygen in 1774?

A) Joseph Priestley

B) Antoine Lavoisier

C) Robert Boyle

D) Humphry Davy

2. In 1869, which scientist published the first widely recognized version of the periodic table?

A) John Newlands

B) Dmitri Mendeleev

C) Lothar Meyer

D) Henry Moseley

3. Which element was isolated for the first time by Marie and Pierre Curie in 1898?

A) Uranium

B) Polonium

C) Thorium

D) Actinium

4. Who proposed the Law of Conservation of Mass in 1789?

A) John Dalton

B) Joseph Proust

C) Antoine Lavoisier

D) Carl Scheele

5. The 1903 Nobel Prize in Physics was awarded to which husband and wife team for their research on radiation?

A) The Curies

B) The Bohrs

C) The Rutherfords

D) The Braggs

6. What substance did Humphry Davy identify as an element in 1807 through electrolysis?

A) Oxygen

B) Sodium

C) Carbon

D) Nitrogen

7. Who is known as the father of modern chemistry for his work on combustion and the metric system?

- A) Robert Boyle
- B) Amedeo Avogadro
- C) Antoine Lavoisier**
- D) Louis Pasteur

8. In 1913, who proposed the atomic model where electrons orbit the nucleus in fixed energy levels?

- A) J.J. Thomson
- B) Ernest Rutherford
- C) Niels Bohr**
- D) Erwin Schrödinger

9. Which English chemist formulated the Law of Multiple Proportions in 1803?

- A) John Dalton**
- B) William Henry
- C) James Prescott Joule
- D) Michael Faraday

10. What famous experiment in 1909 proved the existence of a dense, positively charged nucleus?

- A) Oil drop experiment
- B) Gold foil experiment**
- C) Cathode ray experiment
- D) Double-slit experiment

11. Who discovered the noble gases, including argon, in the late 19th century?

- A) William Ramsay**
- B) Lord Rayleigh
- C) Dmitri Mendeleev
- D) Linus Pauling

12. What did Friedrich Wöhler synthesize in 1828, effectively disproving the concept of vitalism?

- A) Glucose
- B) Urea**
- C) Acetic acid
- D) Protein

13. Who developed the pH scale in 1909 while working for the Carlsberg Laboratory?

- A) Gilbert Lewis
- B) Søren Sørensen**
- C) Svante Arrhenius
- D) Walther Nernst

14. Which scientist discovered the electron using a cathode ray tube in 1897?

- A) Ernest Rutherford
- B) J.J. Thomson**
- C) James Chadwick
- D) Robert Millikan

15. What major chemical process for synthesizing ammonia was patented by Fritz Haber in 1908?

- A) Ostwald process
- B) Haber-Bosch process**
- C) Solvay process
- D) Contact process

16. Who received the 1954 Nobel Prize in Chemistry for his research into the nature of the chemical bond?

- A) Linus Pauling**
- B) Robert Mulliken
- C) Glenn Seaborg
- D) Dorothy Hodgkin

17. In 1808, who proposed the Atomic Theory stating that all matter is composed of atoms?

- A) John Dalton**
- B) Isaac Newton
- C) Antoine Lavoisier
- D) Joseph Priestley

18. Which element was named after the Greek word for 'lazy' due to its lack of chemical reactivity?

- A) Helium
- B) Neon
- C) Argon**
- D) Krypton

19. Who was the first woman to win a Nobel Prize in Chemistry (in 1911) for the discovery of radium and polonium?

A) Irene Joliot-Curie

B) Marie Curie

C) Rosalind Franklin

D) Dorothy Hodgkin

20. James Chadwick discovered which subatomic particle in 1932?

A) Proton

B) Electron

C) Neutron

D) Positron

21. What analytical technique was developed by Michael Tswett in 1900 for separating plant pigments?

A) Distillation

B) Chromatography

C) Titration

D) Electrolysis

22. Which chemist invented the safety lamp for miners in 1815?

A) Humphry Davy

B) Michael Faraday

C) John Dalton

D) Robert Bunsen

23. Who formulated the 'Law of Octaves' regarding the periodicity of elements in 1864?

A) John Newlands

B) Dmitri Mendeleev

C) Lothar Meyer

D) Henry Moseley

24. In 1777, who published his book 'Chemical Essay on Air and Fire' describing oxygen as 'fire-air'?

A) Carl Wilhelm Scheele

B) Joseph Black

C) Antoine Lavoisier

D) Henry Cavendish

25. Which synthetic element was the first to be produced by nuclear bombardment in 1937?

A) Technetium

B) Promethium

C) Astatine

D) Francium