

Skill practice 8 atomic structure answer key Workbook

Skill Practice 8 Atomic Structure Answer Key is a vital resource for students and educators aiming to master the concepts of atomic structure. This practice set is designed to reinforce understanding of atomic models, electron configurations, and the fundamental principles that govern the behavior of atoms. Whether you're preparing for a quiz, test, or simply seeking to strengthen your knowledge, having access to the answer key can provide clarity and confidence as you navigate complex topics related to atomic theory.

Understanding the Purpose of Skill Practice 8 Atomic Structure

Why Practice Sets Are Essential in Learning Atomic Structure

Practice exercises like Skill Practice 8 serve as an essential tool in science education because they:

- Help students apply theoretical concepts in practical scenarios
- Identify areas where understanding may be lacking
- Encourage critical thinking through problem-solving
- Improve retention of atomic concepts through active engagement

Having a comprehensive answer key allows students to check their work, understand mistakes, and learn correct reasoning, thereby solidifying their grasp of atomic structure principles.

Key Concepts Covered in Skill Practice 8 Atomic Structure

Fundamental Atomic Concepts

The practice set typically covers essential topics such as:

- The atomic model and historical development (Dalton, Thomson, Rutherford, Bohr)
- Atomic number and mass number
- Isotopes and their significance
- Electron configuration and orbital notation
- Periodic table trends related to atomic structure

Understanding these core ideas is crucial for answering questions accurately and thoroughly.

Sample Questions and Their Answer Keys

Below are some common types of questions from Skill Practice 8 and their corresponding answers to guide learners.

Question 1: Describe the Bohr Model of the atom.

- **Answer:** The Bohr Model depicts the atom as a small, positively charged nucleus surrounded by electrons that orbit the nucleus in specific, quantized energy levels. Electrons can jump between levels by absorbing or emitting energy but occupy fixed orbits, which explains atomic spectral lines.

Question 2: What is an isotope? Provide an example.

- **Answer:** An isotope is a variant of a chemical element that has the same number of protons but a different number of neutrons, resulting in a different atomic mass. For example, Carbon-12 and Carbon-14 are isotopes of carbon.

Question 3: Write the electron configuration for oxygen (O).

- **Answer:** The electron configuration for oxygen is $1s^2 2s^2 2p^4$.

Question 4: How many electrons can the third energy level hold?

- **Answer:** The third energy level can hold a maximum of 18 electrons, with the s, p, and d orbitals accommodating 2, 6, and 10 electrons respectively.

Question 5: Which element has an atomic number of 11, and what is its electron configuration?

- **Answer:** The element is sodium (Na). Its electron configuration is $1s^2 2s^2 2p^6 3s^1$.

Strategies for Using the Answer Key Effectively

Review and Understand Mistakes

After attempting the practice questions, compare your answers with the answer key. For any mistakes:

- Identify where your reasoning diverged from the correct explanation
- Revisit relevant concepts or textbook sections
- Practice similar questions to reinforce understanding

Deepen Comprehension of Atomic Concepts

Use the answer key as a learning guide:

- Analyze detailed explanations provided for each answer
- Take notes on key points and definitions
- Create flashcards for quick review of important concepts such as orbitals, isotopes, and electron configurations

Apply Knowledge to New Problems

Once comfortable with the answer key:

- Attempt additional practice questions without immediate reference to the answer key
- Use the key to verify your responses and correct misunderstandings
- Challenge yourself with more complex problems involving atomic calculations or periodic trends

Additional Resources to Complement Skill Practice 8 Atomic Structure

Textbooks and Educational Websites

To deepen your understanding, consider supplementing practice sets with:

- High school or college chemistry textbooks
- Reliable online educational platforms like Khan Academy, ChemCollective, or educational YouTube channels

Interactive Simulations and Models

Visual aids can enhance comprehension:

- PhET Interactive Simulations on atomic models
- 3D atom models to visualize electron orbitals and atomic structure

Conclusion: Mastering Atomic Structure with the Answer Key

Utilizing the **skill practice 8 atomic structure answer key** effectively can significantly improve your grasp of fundamental atomic concepts. It provides immediate feedback, clarifies misconceptions, and guides you toward a deeper understanding of how atoms are structured and behave. Remember, consistent practice combined with reviewing answer keys and supplementary resources will lead to greater confidence and success in mastering atomic theory. Whether you're a student preparing for exams or a teacher designing lesson plans, leveraging these practice tools ensures a solid foundation in atomic structure, essential for advanced studies in chemistry and related sciences.

Skill Practice 8 Atomic Structure Answer Key: A Comprehensive Guide to Mastering Atomic Concepts

Understanding atomic structure is fundamental to mastering chemistry. When tackling Skill Practice 8 Atomic Structure Answer Key, students and educators alike seek clarity, precision, and confidence in their grasp of atomic concepts. This guide offers a detailed breakdown of the key principles, common questions, and strategies to approach practice problems effectively, ensuring a strong foundation in atomic theory and its applications.

Introduction to Atomic Structure and Its Significance

Atomic structure forms the bedrock of chemistry, explaining how atoms form elements, molecules, and compounds. Skill Practice 8 is designed to test and reinforce knowledge about atomic models, subatomic particles, isotopes, atomic mass calculations, and electron configurations. Mastery of these topics enables students to interpret data, predict chemical behavior, and understand the periodic table's layout.

Understanding the Core Concepts in Skill Practice 8

- Subatomic Particles: Protons, Neutrons, and Electrons

At the heart of atomic structure are three fundamental particles:

- Protons: Positively charged particles located in the nucleus. The number of protons defines the atomic number and the element.
- Neutrons: Neutral particles also in the nucleus, contributing to atomic mass but not charge.
- Electrons: Negatively charged particles orbiting the nucleus in electron clouds or shells.

Key points:

- Atomic number = number of protons.
- Atomic mass = protons + neutrons.
- Isotopes are atoms of the same element with different neutron counts.

- Atomic Number and Atomic Mass

Understanding the relationship between atomic number and atomic mass is crucial:

- The atomic number (Z) uniquely identifies an element.
- The atomic mass (A) is the weighted average of all isotopic masses.

Practice Tip: When given isotopic data, students should identify the element via atomic number and calculate average atomic mass if needed.

- Isotopes and Atomic Weight Calculations

Isotopes are variants of an element with different neutron counts. Recognizing isotopic notation (e.g., Carbon-12, Carbon-13) is essential.

Calculating Atomic Weight:

- Multiply each isotope's mass by its relative abundance (as a decimal).
- Sum these values to find the average atomic weight.

Example:

Suppose an element has two isotopes:

- Isotope A: mass = 10 amu, abundance = 20%
- Isotope B: mass = 11 amu, abundance = 80%

Calculation:

$$(10 \times 0.20) + (11 \times 0.80) = 2 + 8.8 = 10.8 \text{ amu}$$

- Electron Configuration

Electron configurations describe the distribution of electrons across orbitals and shells, following principles like the Aufbau principle, Pauli exclusion principle, and Hund's rule.

Common configurations to remember:

- Hydrogen: $1s^1$
- Helium: $1s^2$
- Carbon: $1s^2 2s^2 2p^2$

Why it matters: Electron configurations determine an element's chemical properties and reactivity.

Common Types of Questions in Skill Practice 8

- Identifying Atomic Number and Mass from Data

Questions may ask to deduce the atomic number, mass number, or isotopic composition based on given data.

- Calculating Atomic Weight

Given isotopic abundances and masses, calculate the average atomic weight for an element.

- Electron Configuration and Orbital Diagrams

Determine the electron configuration for a specific element or isotope.

- Isotope Abundance and Symbol Notation

Identify the isotope based on the given data or vice versa.

Strategies for Approaching Skill Practice 8 Questions

- Break Down the Problem
- Identify what is being asked: atomic number, mass, isotope, electron configuration?
- Highlight given data: isotope masses, abundances, atomic number, etc.
- Use Visuals
- Draw orbital diagrams or Bohr models for clarity.
- Use periodic table references to confirm element identities.
- Apply Core Principles
- Use the relationship: atomic number = protons.
- Recall that atomic mass is approximately the sum of protons and neutrons.
- Use isotope notation to identify specific variants.
- Practice Calculation Steps
- Convert percentages to decimals for atomic weight calculation.
- Sum contributions accurately.
- Cross-check calculations for consistency.

Sample Problem Walkthroughs

Problem 1: Determine the Atomic Number and Atomic Mass

Question: An element has two isotopes: 20.00 amu (90%) and 21.00 amu (10%). What is its atomic

weight?

Solution:

- Convert percentages to decimals:

- 90% = 0.90

- 10% = 0.10

- Multiply each isotope's mass by its abundance:

- $20.00 \times 0.90 = 18.00$

- $21.00 \times 0.10 = 2.10$

- Sum to find atomic weight:

- $18.00 + 2.10 = 20.10 \text{ amu}$

Answer: The atomic weight is approximately 20.10 amu. To find the atomic number, recognize the isotope masses suggest the element is likely neon (Ne), which has atomic number 10.

Problem 2: Electron Configuration for an Isotope

Question: Write the electron configuration for the isotope Carbon-13.

Solution:

- Carbon's atomic number = 6 (6 protons).

- Carbon-13 has 6 neutrons (since $13 - 6 = 7$, but note: atomic mass is 13, so neutrons = $13 - 6 = 7$).

- Electron configuration:

- $1s^2 2s^2 2p^2$

Note: Electron configuration depends on atomic number, not isotope mass. Isotope differences don't

affect electron configuration unless ionized.

Common Pitfalls and How to Avoid Them

- Confusing atomic mass with mass number: Remember atomic mass is an average, whereas mass number is for a specific isotope.
- Neglecting to convert percentages to decimals: Always convert to decimals before calculations.
- Misreading isotope notation: Ensure correct interpretation (e.g., Carbon-12 vs. Carbon-13).
- Ignoring electron configuration principles: Follow the Aufbau principle and Hund's rule for accurate configurations.

Final Tips for Mastery

- Practice regularly: Consistent problem-solving enhances understanding.
- Use periodic tables: Familiarize yourself with element details.
- Draw diagrams: Visual aids help clarify complex concepts.
- Review core principles: Keep fundamentals like atomic number, mass, and electron configuration at your fingertips.
- Check your work: Always verify calculations and logical consistency.

Conclusion

Mastering Skill Practice 8 Atomic Structure Answer Key involves a thorough understanding of subatomic particles, isotope behavior, atomic mass calculations, and electron configurations. By applying systematic strategies, practicing with real data, and reinforcing fundamental principles, students can confidently approach and excel in atomic structure problems. Remember, each question is an opportunity to deepen your understanding of the building blocks of matter ? atoms ? and their fascinating interactions that form the basis of chemistry.

Empower your learning journey with these insights, and you'll be well on your way to mastering atomic structure with confidence!

Question What is the main focus of Skill Practice 8 on atomic structure? The main focus is to understand the basic concepts of atomic structure, including atomic models, subatomic particles, and atomic number. How does the atomic model evolve from Dalton to modern quantum theory? It progresses from Dalton's solid sphere model to Thomson's plum pudding, Rutherford's nuclear model, Bohr's planetary model, and finally to the quantum mechanical model. What are the subatomic particles of an atom discussed in Skill Practice 8? The key subatomic particles are protons, neutrons, and electrons. How do you determine the atomic number and mass number of an

element? The atomic number is the number of protons, and the mass number is the sum of protons and neutrons in the nucleus. What is an isotope, and how is it represented? An isotope is an atom with the same number of protons but a different number of neutrons. It is represented by the element symbol with mass number, e.g., Carbon-14. Why are electrons important in atomic structure? Electrons determine the atom's chemical behavior and are involved in bonding and energy level arrangements. What is the significance of the atomic number in the periodic table? The atomic number defines the element and its position in the periodic table, indicating the number of protons. How do the concepts of atomic orbitals relate to atomic structure? Atomic orbitals describe regions where electrons are likely to be found, explaining the distribution of electrons around the nucleus. What is the purpose of practice questions in Skill Practice 8 on atomic structure? They help reinforce understanding of atomic models, particle composition, and the properties of elements. Where can I find the answer key for Skill Practice 8 on atomic structure? The answer key is typically provided in the accompanying teacher's guide or student resource materials associated with the practice exercise.

Related keywords: atomic structure, practice questions, answer key, atomic models, electron configuration, atomic theory, periodic table, nucleus, protons and neutrons, atomic number

Atomic mass and atomic number answer key

Understanding Atomic Mass and Atomic Number Answer Key

Atomic mass and atomic number answer key are fundamental concepts in chemistry that help students and enthusiasts understand the properties of elements. These key concepts serve as the foundation for comprehending how atoms are structured and how they behave in chemical reactions. Whether you're preparing for exams, working on homework, or simply eager to deepen your understanding of atomic theory, grasping the atomic mass and atomic number is essential.

In this comprehensive guide, we will explore the definitions of atomic mass and atomic number, their significance, how to interpret and use answer keys for learning, and practical examples to solidify your understanding.

What Is Atomic Number?

Definition of Atomic Number

The atomic number (represented as Z) of an element is the number of protons contained within the nucleus of an atom of that element. It is a unique identifier for each element and determines its

position on the periodic table.

Significance of Atomic Number

- Defines the element: Each element has a specific atomic number. For example, hydrogen has $Z = 1$, helium $Z = 2$.
- Determines chemical properties: The number of protons influences the element's chemical behavior.
- Influences electrons: In a neutral atom, the atomic number equals the number of electrons.

Examples of Atomic Numbers

| Element | Atomic Number (Z) |

|-----|-----|

| Hydrogen | 1 |

| Carbon | 6 |

| Oxygen | 8 |

| Iron | 26 |

| Gold | 79 |

What Is Atomic Mass?

Definition of Atomic Mass

Atomic mass (also called atomic weight) is the weighted average mass of the atoms in a naturally occurring sample of an element, measured in atomic mass units (amu). It accounts for the relative abundance of isotopes of each element.

Understanding Atomic Mass and Isotopes

- Isotopes are atoms of the same element with different numbers of neutrons, hence different atomic masses.
- Atomic mass reflects the average of all isotopic masses based on their natural abundance.

Atomic Mass vs. Atomic Weight

While often used interchangeably, atomic weight refers specifically to the average atomic mass of an element's isotopes as listed on the periodic table.

Using the Atomic Mass and Atomic Number Answer Key

Purpose of an Answer Key

An answer key provides the correct responses to exercises, problems, or questions related to atomic mass and atomic number. It helps students verify their understanding and identify areas needing improvement.

How to Use the Answer Key Effectively

- Cross-reference your answers with the key to check accuracy.
- Study explanations provided for each answer to reinforce concepts.
- Use the answer key as a learning tool, not just a means to get correct answers.
- Practice with different questions to deepen understanding.

Common Types of Questions in Atomic Mass and Atomic Number Exercises

- Identify the atomic number of a given element.
- Calculate the number of protons, neutrons, or electrons in an atom.
- Determine the atomic mass given isotope data.
- Find the average atomic mass based on isotope abundances.
- Match elements to their atomic numbers or atomic masses.

Practical Examples and Sample Questions

Example 1: Identifying Atomic Number

Question: What is the atomic number of oxygen?

Answer: 8

Explanation: Oxygen has 8 protons in its nucleus, so its atomic number is 8.

Example 2: Calculating Neutrons

Question: An isotope of carbon has an atomic mass of 14 amu. How many neutrons does this isotope have?

Answer: 8 neutrons

Calculation:

- Atomic number of carbon (Z) = 6
- Atomic mass of isotope = 14 amu
- Neutrons = Atomic mass - Atomic number = $14 - 6 = 8$

Example 3: Using Atomic Mass to Determine Isotope Composition

Question: If an element has two isotopes, one with 75% abundance and an atomic mass of 20 amu, and the other with 25% abundance and an atomic mass of 22 amu, what is the average atomic mass?

Answer: 20.5 amu

Calculation:

$$- (0.75 \times 20) + (0.25 \times 22) = 15 + 5.5 = 20.5 \text{ amu}$$

Example 4: Matching Elements with Atomic Numbers

Question: Match the following elements with their atomic numbers:

- Hydrogen
- Silicon
- Uranium

Answer:

- Hydrogen ? 1
- Silicon ? 14
- Uranium ? 92

Tips for Mastering Atomic Mass and Atomic Number Questions

- Memorize the atomic numbers of common elements for quick recall.
- Understand how to interpret isotope data and calculate atomic mass.
- Practice converting between protons, neutrons, and electrons.
- Use periodic tables as reference tools for atomic masses and numbers.
- Review answer keys to identify common mistakes and misconceptions.

Conclusion

Understanding the concepts of atomic mass and atomic number is crucial for mastering foundational chemistry topics. The atomic mass and atomic number answer key serves as an invaluable resource for students, educators, and self-learners aiming to verify their knowledge and improve their grasp of atomic structure. By regularly practicing with questions and consulting answer keys, learners can build confidence and competence in handling atomic data, ultimately enhancing their overall chemistry skills.

Remember, the periodic table is your best friend in these exercises, providing quick access to atomic numbers and atomic masses. With consistent practice and a solid understanding of these concepts, you'll be well-equipped to tackle advanced topics in chemistry and apply this knowledge confidently in laboratory and real-world scenarios.

Atomic Mass and Atomic Number Answer Key: An In-Depth Exploration

Understanding the fundamentals of atomic structure is essential for students, educators, and professionals involved in chemistry and related sciences. Two critical concepts at the heart of atomic theory are the atomic mass and atomic number. These properties serve as foundational identifiers of elements and underpin the organization of the periodic table. This article aims to provide an exhaustive review of atomic mass and atomic number answer key, delving into their definitions, significance, differences, and common misconceptions, while offering clarity for educators and learners alike.

Introduction to Atomic Structure: The Building Blocks of Matter

Atoms are the basic units of matter, composed of subatomic particles: protons, neutrons, and electrons. Protons and neutrons reside in the nucleus, while electrons orbit around it. The arrangement and properties of these particles define an element and influence its chemical behavior.

Two central concepts emerge when discussing atomic identity:

- Atomic Number (Z): The number of protons in an atom's nucleus.
- Atomic Mass (Atomic Mass Number, A): The total number of protons plus neutrons in the nucleus.

Understanding these two quantities provides insight into the identity and isotopic composition of an element.

The Atomic Number: Defining Element Identity

What is the Atomic Number?

The atomic number is a unique identifier for each element, representing the number of protons in the nucleus of an atom of that element. It determines the element's position on the periodic table and its chemical properties.

Key points about atomic number:

- It is denoted by the symbol Z.
- It is a whole number (integer).
- It is invariant for all atoms of a given element.
- It defines the element; no two different elements share the same atomic number.

Significance in Chemistry and Physics

The atomic number influences atomic behavior in several ways:

- Electronic Configuration: The number of electrons in a neutral atom equals Z, which determines how atoms bond and interact.
- Periodic Trends: Elements are ordered by increasing atomic number, revealing periodic patterns in properties.
- Nuclear Stability: Atomic number informs about the proton-to-neutron ratio, affecting isotopic stability.

Examples of Atomic Numbers

Element	Symbol	Atomic Number (Z)
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| Hydrogen | H | 1 |

| Carbon | C | 6 |

| Oxygen | O | 8 |

| Iron | Fe | 26 |

| Uranium | U | 92 |

The Atomic Mass: The Mass Perspective of Atoms

What is Atomic Mass?

Atomic mass, often expressed in atomic mass units (amu), reflects the weighted average mass of all isotopes of an element as they naturally occur. It accounts for the mass contributions of protons and neutrons, but not electrons, which have negligible mass.

Key points about atomic mass:

- It is a decimal value, often close to whole numbers but not exact.
- It represents the average considering isotope abundance.
- It is listed on the periodic table beneath the element symbol.

Atomic Mass versus Atomic Mass Number

While similar terminology exists, atomic mass and atomic mass number are distinct:

Term	Definition	Units	Notes
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Atomic Mass (Atomic Weight)	The average mass of all isotopes, weighted by abundance	amu
Usually a decimal, found on periodic table		

Atomic Mass Number (A)	Total number of protons + neutrons in a specific isotope	Whole number
Specific to one isotope		

Calculating Atomic Mass

Atomic mass is calculated as:

$$\text{Atomic Mass} = \sum (\text{isotope mass} \times \text{relative abundance})$$

For example, Chlorine has two main isotopes:

- Cl-35 (mass = 34.97 amu, abundance = 75.78%)
- Cl-37 (mass = 36.97 amu, abundance = 24.22%)

Thus, the atomic mass of Chlorine:

$$(34.97 \times 0.7578) + (36.97 \times 0.2422) \approx 35.45 \text{ amu}$$

This value is what appears on the periodic table.

Answer Key: Clarifying Common Questions and Misconceptions

In educational settings, students often encounter questions related to atomic number and atomic mass. An answer key serves as a guide to facilitate understanding and ensure accurate responses. Here, we examine typical questions and provide detailed explanations.

Sample Questions and Explanations

- What is the atomic number of an element?

Answer: The atomic number is the number of protons in the nucleus of an atom of that element.

- How does the atomic mass differ from the atomic number?

Answer: The atomic mass accounts for the weighted average of all isotopes' masses, while the atomic number is the count of protons, which remains constant for a given element.

- Why do isotopes of an element have different atomic masses?

Answer: Because isotopes have different numbers of neutrons, their atomic masses differ even though they have the same atomic number.

- If an atom has 11 protons and 12 neutrons, what are its atomic number and atomic mass?

Answer: Atomic number = 11 (number of protons), atomic mass number = $11 + 12 = 23$.

- Given a list of isotopes, how do you determine the average atomic mass?

Answer: Multiply each isotope's mass by its relative abundance, then sum these products.

Common Misconceptions Addressed in the Answer Key

- Confusing atomic mass with atomic mass number: The atomic mass is a weighted average, not a whole number, whereas the atomic mass number is specific to an isotope.
- Believing atomic number can change: It remains constant for a given element unless the atom is transmuted.
- Assuming atomic mass is always a whole number: Due to isotopic distribution, atomic mass is typically a decimal value.

The Role of Atomic Number and Atomic Mass in the Periodic Table

The periodic table is organized primarily by increasing atomic number. Elements with similar properties are grouped into columns called groups or families. Atomic mass, while not used to organize the periodic table, provides insight into isotopic composition and atomic weight calculations.

Relation to Isotopes and Atomic Weight

Atomic weight (atomic mass) reflects the natural isotopic distribution. For elements with multiple stable isotopes, the atomic weight is an average, often a non-integer. This value is crucial for calculations in chemistry and physics, including molar conversions and stoichiometry.

Implications for Scientific Research and Education

Understanding atomic mass and atomic number answer key is vital for:

- Accurate identification of elements.
- Proper interpretation of periodic table data.
- Correct calculation of molar masses.
- Comprehension of isotopic variations and their impact on atomic properties.

For educators, providing clear answer keys enhances student learning, helps in exam preparation, and clarifies misconceptions.

Conclusion

The concepts of atomic mass and atomic number are fundamental to comprehending atomic structure and elemental properties. While the atomic number uniquely identifies an element, the atomic mass provides a weighted average reflecting isotopic composition. An answer key serves as an essential resource to reinforce understanding, clarify common questions, and address misconceptions.

In advancing scientific literacy, mastery of these concepts enables better interpretation of the periodic table, more accurate chemical calculations, and a deeper appreciation of the atomic nature of matter. As science progresses, these foundational properties continue to underpin innovations in nuclear physics, chemistry, and materials science.

Remember: Precise knowledge of atomic mass and atomic number is not only academic but also practical, influencing fields from medicine to engineering. Mastery of these topics ensures a solid base for future scientific endeavors.

Question What is the difference between atomic mass and atomic number? Atomic number is the number of protons in an atom's nucleus, which defines the element, while atomic mass is the total mass of protons and neutrons in the atom's nucleus, usually expressed in atomic mass units (amu). **Answer** How is the atomic number used to identify an element? The atomic number uniquely identifies an element because each element has a specific number of protons; for example, carbon has an atomic number of 6. Why is the atomic mass often a decimal value in atomic mass tables? Atomic mass is often a decimal because it is an average of the masses of all isotopes of an element, weighted by their natural abundance. Can an element have the same atomic number but different atomic masses? Yes, elements with the same atomic number but different atomic masses are isotopes, which differ in the number of neutrons. How do you calculate the atomic mass of an element from its isotopic abundances? You multiply each isotope's atomic mass by its relative abundance (as a decimal) and then sum these values to get the weighted average atomic mass. What information is provided by the atomic number and atomic mass in the periodic table? The atomic number indicates the element's identity and position in the periodic table, while the atomic mass provides information about the average mass of its isotopes, useful for calculations involving moles and atomic particles.

Related keywords: atomic mass, atomic number, periodic table, isotopes, element symbol, protons, neutrons, electrons, atomic weight, nucleus

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