

Name - _____

Start time - __ : __

End time - __ : __

Provide examples of electron configurations for different elements and explain how they are determined.

Describe the significance of valence electrons in determining the chemical properties of an element.

Discuss the relationship between atomic structure and the chemical properties of elements.

Identify and describe one real-life application of isotopes in medicine or industry.

Determine if the statements are true or false.

- The atomic number of an element is equal to the number of neutrons in its nucleus. (True/False)
- Isotopes of an element have the same number of protons but different numbers of neutrons. (True/False)
- The periodic table is arranged based on increasing atomic mass. (True/False)

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