

# **Middle Grades General Science 5-9**

**Florida Teacher Certification Examination**

**Test Preparation Course**

***Science Matters: A Matter of the Atom***

**Video Assessment**

Teaching & Leadership Center

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**DIRECTIONS: Read each item and select the best response.**

**1. Which of the following states of matter is believed to be the most common in the visible universe?**

- A. solid
- B. liquid
- C. gas
- D. plasma

**2. All the matter we know of can be broken down into simple substances called**

- A. compounds.
- B. mixtures.
- C. elements.
- D. ions.

**3. This scientist proposed the “electron cloud” model of the atom.**

- A. John Dalton
- B. Niels Bohr
- C. Ernest Rutherford
- D. Erwin Schrödinger

**4. The atomic number tells us how many of these are found in the nucleus of an atom.**

- A. proton
- B. neutron
- C. electron
- D. positron

**5. To find the approximate number of neutrons in an atom,**

- A. add the atomic number and the atomic weight.
- B. subtract the atomic number from the atomic weight.
- C. multiply the atomic number and the atomic weight.
- D. divide the atomic weight by the atomic number.

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**6. The number of neutrons in an atom can differ, so you can have different forms of the same element. These atoms are called**

- A. isotopes.
- B. neutron pairs.
- C. positive ions.
- D. negative ions.

**7. The nucleus of an atom is held together by a strong**

- A. gravitational force.
- B. electromagnetic force.
- C. nuclear force.
- D. fusion of atoms.

**8. A positive ion is also known as a**

- A. anion.
- B. cation.
- C. proton.
- D. valence electron.

**9. A physical property that describes the ability of a substance to dissolve is called**

- A. density.
- B. cohesion.
- C. reactivity.
- D. solubility.

**10. A chemical property that can cause some materials to rust is called**

- A. oxidation.
- B. flammability.
- C. radioactivity.
- D. decay.

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- 1. D**
- 2. C**
- 3. D**
- 4. A**
- 5. B**
- 6. A**
- 7. C**
- 8. B**
- 9. D**
- 10. A**