

Name: _____

Date: _____

Atoms Science Worksheet

TOPIC: ATOMS

Instructions: Choose the best answer for each question.

1. What is the basic unit of matter?

- A) Molecule
 - B) Atom
 - C) Electron
 - D) Proton
-

2. What are the three main subatomic particles that make up an atom?

- A) Neutrons, photons, and quarks
 - B) Protons, electrons, and neutrons
 - C) Electrons, ions, and molecules
 - D) Neutrons, isotopes, and electrons
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3. Where is most of the mass of an atom located?

- A) In the electron cloud
 - B) In the nucleus
 - C) In the orbitals
 - D) In the protons
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4. What is the charge of a proton?

- A) Positive
 - B) Negative
 - C) Neutral
 - D) Depends on the element
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5. Which subatomic particle has a negative charge?

- A) Neutron
 - B) Proton
 - C) Electron
 - D) Nucleus
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6. What part of the atom contains the protons and neutrons?

- A) The electron cloud
 - B) The nucleus
 - C) The energy levels
 - D) The outer shell
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7. What is the atomic number of an element?

- A) The number of neutrons in the atom
 - B) The total number of protons and neutrons
 - C) The number of electrons in the outer shell
 - D) The number of protons in the nucleus
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8. How are atoms of different elements different from each other?

- A) By the number of protons in the nucleus
 - B) By the number of neutrons they contain
 - C) By their size
 - D) By their energy levels
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9. What do you call atoms of the same element that have different numbers of neutrons?

- A) Isotopes
 - B) Ions
 - C) Molecules
 - D) Compounds
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10. What happens if an atom gains or loses an electron?

- A) It becomes a different element
 - B) It becomes an ion
 - C) It becomes a neutron
 - D) It remains unchanged
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Answer Key:

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