



• Quizzes

What Is An Atom?

Basic

• What is made of atoms?

- A – all matter
- B – liquids
- C – gases
- D – solids

• The subatomic particles in an atom are usually

- A – protons and neutrons
- B – protons and electrons
- C – protons, neutrons and electrons
- D – neutrons and electrons

• The nucleus usually contains

- A – electrons
- B – protons and neutrons
- C – neutrons
- D – neutrons and electrons

• An atom with 8 protons is an atom of

- A – hydrogen
- B – gold
- C – copper
- D – oxygen

Advanced

• 99% of the mass of the atom is in the

- A – electrons
- B – neutrons
- C – protons
- D – nucleus

• The number of protons in an atom is always equal to the

- A – number of neutrons
- B – number of electrons
- C – number of electrons + number of neutrons
- D – number of electrons - number of neutrons

• The atomic number is the

- A – number of protons
- B – number of neutrons
- C – number of electrons
- D – number of electrons - number of neutrons

• The unique identity of an atom of a specific element is decided by the

- A – size of its nucleus
- B – mass of its nucleus
- C – number of protons in its nucleus
- D – number of neutrons in its nucleus

Electron Shells

Basic

• The nucleus is

- A – about the same size as the atom
- B – about half the mass of the atom
- C – very much smaller than the atom
- D – very much lighter than the atom

• What is the maximum number of electrons in the first electron shell?

- A – 1
- B – 2
- C – 8
- D – 18

• How many electrons are there in the outer shell of a sodium atom?

- A – 1
- B – 2
- C – 8
- D – 18

• How many electrons are there in the outer shell of a fluorine atom?

- A – 1
- B – 2
- C – 7
- D – 9

Advanced

• The chemical behaviour of an atom depends on

- A – the number of electrons in the first shell
- B – the number of neutrons + number of protons
- C – the mass of the nucleus
- D – the number of electrons in the outer shell

• If an atom X has 12 electrons, how many electrons will there be in its outer shell?

- A – 1
- B – 2
- C – 8
- D – 10

• If an atom of element Y has 6 outer electrons in its second (outer) shell, how many MORE electrons does an atom of Y need in order to have a full outer shell?

- A – 1
- B – 2
- C – 6
- D – 8

• If an atom of an element Z has 7 outer electrons, which of these elements will be most similar to Z in its chemical behaviour?

- A – sodium
- B – fluorine
- C – potassium
- D – neon