

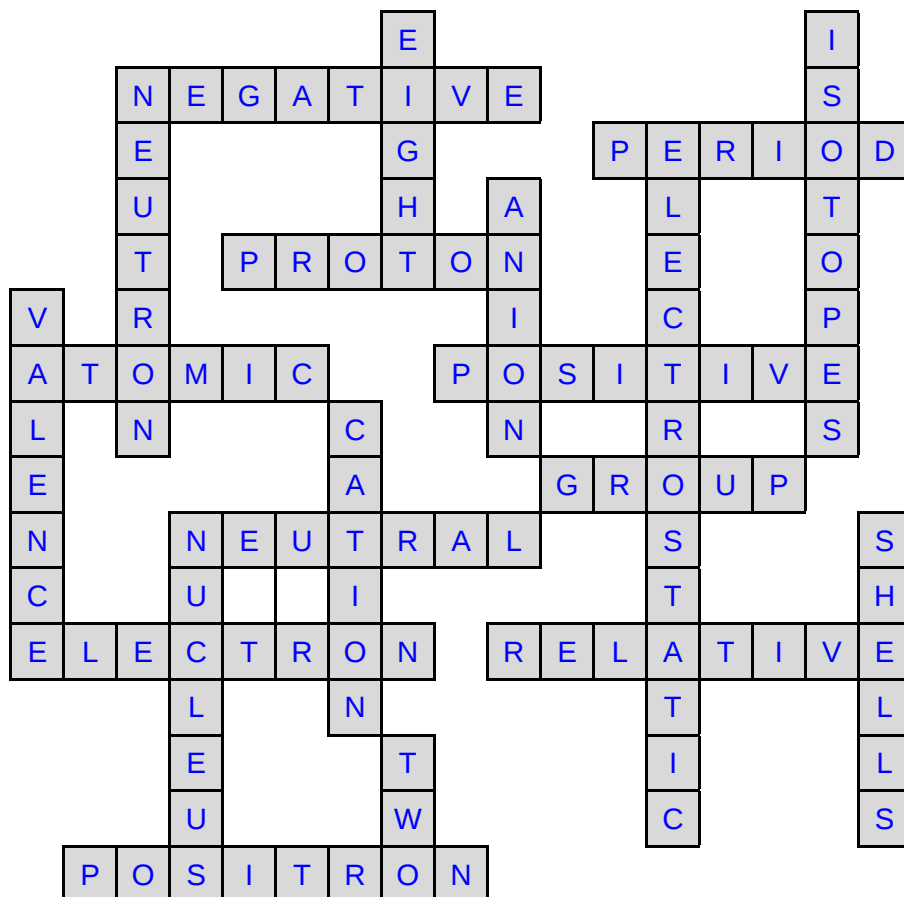
# Chem!stry

Name: ..... ( )

Class: .....

Date: ..... / ..... / .....

## Crossword on Atomic Structure – Answers



### Clues Across

- Electrons carry a ..... charge (8).
- The number of electron shells an atom has equals the element's ..... number in the Periodic Table (6).
- Particle with a charge of +1 and mass of 1 a.m.u. (6).
- The number of protons in the nucleus of an atom is the same as the element's ..... number (6).
- Protons carry a ..... charge (8).
- The number of electrons in the outer shell of an atom equals the element's ..... number in the Periodic Table (5).
- Neutrons are ..... because they carry no charge (7).
- Particle with a charge of  $-1$  and a mass of  $1/1836$  a.m.u. (8).
- The ..... atomic mass of chlorine is 35.5 (8).
- A positively charged electron is called a ..... (8).

### Clues Down

- The second electron shell can hold a maximum number of ..... electrons (5).
- Atoms with the same number of protons but a different number of neutrons are called ..... (8).
- Particle with a charge of 0 and a mass of 1 a.m.u. (7).
- Positively and negatively charged particles are drawn towards each other by an ..... force of attraction (13).
- A negatively charged ion is called an ..... (5).
- The outermost electron shell is called the ..... shell (7).
- A positively charged ion is called a ..... (6).
- There is a small, dense ..... at the centre of every atom (7).
- Electrons orbit around the atom in electron ..... (6).
- The first (inner) electron shell can hold a maximum number of ..... electrons (3).