

Name _____

Answer Key: Ions and Ion Formation

1. Ions are charged particles that result from atoms gaining or losing electrons. They differ from neutral atoms because they have a net electrical charge.

2. When an atom gains electrons, it becomes a negatively charged ion (anion).

3. An atom that loses two electrons becomes a positively charged ion with a charge of +2. For example, calcium (Ca) losing two electrons becomes a calcium ion (Ca²⁺).

4. Ions influence the formation of compounds because oppositely charged ions are attracted to each other, forming ionic bonds.

5. False