

End-of-chapter test

Chapter 1: Periodic trends

SHORT ANSWER

- **1** Are all electrically neutral atoms chemically stable (i.e. unreactive)?
- **2** What makes atoms chemically stable?
- **3** Which electrically neutral atoms are chemically stable?
- **4** How can other atoms become chemically stable?
- **5** What is a chemical element?
- 6 Do metal or non-metal atoms tends to take electrons off other atoms? Explain.
- 7 Do metal or non-metal atoms tends to lose electrons to other atoms? Explain.
- 8 How does ionic bonding result in a regular array (lattice) of atoms?



What is a compound?

What type of compound is held together by ionic bonds?

How do the atoms of a metal share electrons?

How does this result in metallic bonding?

What physical properties of metals result from this metallic bonding?

How do non-metal atoms share electrons?

What two types of compounds are held together by covalent bonding?