

2 Types of chemical bonding – Part 1 — Answers

Answers

Work through these after you have tried the questions yourself.

2.1 (a) an ionic bond. \ (b) a covalent bond.

2.2 metals have delocalized (free) electrons that can move through the structure, carrying the current.

2.3 when molten the ions are free to move and carry charge; in the solid the ions are locked in the lattice and cannot move.

2.4 the different-sized atoms stop the layers of atoms from sliding over each other, so the metal is harder to deform.

2.5 an ionic bond – sodium gives its outer electron to chlorine, making Na^+ and Cl^- , which attract each other.