

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.