The metallic model

International Baccalaureate · IB Diploma · Chemistry · HL · Vocabulary in context

Word	Example
metallic model /mə'tælɪk 'mɒdl/	Use the **metallic model** to explain why aluminium bends.
cation /'kætaɪən/	Sodium loses one electron to form a **cation**.
lattice /'lætɪs/	The ions in salt sit in a regular **lattice**.
delocalized electron /dɪ'lɒkəlaɪzd ɪ'lektrɒn/	A **delocalized electron** can move through the whole metal.
metallic bond /mə'tælɪk bɒnd/	A **metallic bond** attracts electrons to neighbouring positive ions.
non-directional	Metallic bonding is **non-directional**, so layers can slide.
electrical conductivity /ɪ'lektrɪkl kɒndək'tɪvɪti/	Copper has a high **electrical conductivity**.
thermal conductivity /'θɜːml kɒndək'tɪvɪti/	Copper has a high **thermal conductivity**.
malleability /ˌmælə'bɪlɪti/	**Malleability** lets gold be hammered into thin sheets.
ductility /dʌk'tɪlɪti/	**Ductility** lets copper be pulled into wire.
transition element /træn'sɪʃn 'elɪmənt/	Iron is a **transition element**.

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density /'densɪti/	Iron has a higher **density** than wood, so it sinks in water.