States of matter

A-Level Chemistry · Vocabulary in context

Word	Example
collide /kə'laɪd/	Particles must **collide** to react.
pressure /'preʃə/	A sharp knife puts a large **pressure** on the bread.
ideal gas /aɪ'dɪəl gæs/	An **ideal gas** follows pV = nRT exactly. pV = nRT
intermolecular forces /ˌɪntəmə'lekjʊlə 'fɔːsɪz/	Weak **intermolecular forces** let a gas boil at a low temperature.
real gas /rɪəl gæs/	At high pressure, a **real gas** does not follow pV = nRT exactly. pV = nRT
ideal gas equation /aɪ'dɪəl gæs ɪ'kweɪʒn/	Use the **ideal gas equation**, pV = nRT. pV = nRT
kelvin /'kelvɪn/	Water freezes at 273 **kelvin**. 273
gas constant /gæs 'kɒnstənt/	R is the **gas constant**. R
molar mass /'məʊlə mæs/	The **molar mass** of water is 18 g/mol. 18 g/mol
crystalline solid /'krɪstəlaɪn 'sɒlɪd/	Salt is a **crystalline solid**.
giant ionic /'dʒaɪənt aɪ'ɒnɪk/	Sodium chloride has a **giant ionic** structure.
lattice /'lætɪs/	The ions in salt sit in a regular **lattice**.
ion /'aɪɒn/	An **ion** is an atom that has gained or lost electrons.

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simple molecular /'sɪmpl mə'lekjʊlə/	Iodine has a **simple molecular** structure.
molecule /'mɒlɪkjuːl/	A water **molecule** has two hydrogen atoms and one oxygen atom.
fullerene /'fʊlərən/	A **fullerene** is a ball of carbon atoms.
giant molecular /'dʒaɪənt mə'lekjʊlə/	Diamond has a **giant molecular** structure.
covalent bonds /'kəʊvələnt bɒndz/	Atoms in a water molecule share electrons in **covalent bonds**.
silicon(IV) oxide /'sɪlɪkən 'ɒksaɪd/	Sand is mostly **silicon(IV) oxide**.
graphite /'græfaɪt/	Pencils contain **graphite**.
diamond /'daɪəmənd/	**Diamond** is the hardest natural material.
giant metallic /'dʒaɪənt mə'tælɪk/	Copper has a **giant metallic** structure.
delocalised electrons /dɪ'lɒkəlaɪzd ɪ'lektrɒnz/	**Delocalised electrons** let metals conduct electricity.
melting point /'meltɪŋ pɔɪnt/	The **melting point** of ice is 0 °C. 0 °C
boiling point /'bɔɪlɪŋ pɔɪnt/	The **boiling point** of water is 100 °C. 100 °C
electrical conductivity /ɪ'lektrɪkl kɒndək'tɪvɪti/	Copper has a high **electrical conductivity**.
solubility /ˌsɒljuː'bɪlɪti/	Sugar has a high **solubility** in water.