CHEMISTRY

# Atoms, elements and compounds

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| **Atom** | The smallest part of an element, made of a nucleus of protons and neutrons surrounded by electrons. |
| **Element** | A substance made of only one type of atom. Each element has its own place in the periodic table. |
| **Compound** | Two or more different elements chemically joined together, such as water or carbon dioxide. |
| **Molecule** | Two or more atoms joined by covalent bonds, such as oxygen gas or water. |
| **Mixture** | Two or more substances that are not chemically joined and can be separated by physical methods. |
| **Ion** | An atom or group of atoms with an electric charge, formed when electrons are gained or lost. |
| **Reactants and products** | Reactants are the starting substances in a reaction. Products are the new substances made. |