Atoms

Elements

Mixtures

Atoms and the Periodic Table Knowledge Organiser

		Elements
atom	The smallest part of an element that can exist.	An element is a substance that cannot be broken down into other substances. The smallest part of an element that can exist is an atom. Each element is represented by a symbol. The first letter of the symbol is always capitalised, any following letters are lower case. The symbols for the elements are arranged on the periodic table.
bond	An attraction between atoms or molecules that enables the formation of chemical compounds.	
chemical formula	A series of chemical symbols showing the number of atoms of each element in a compound.	
chemical reaction	A process that involves rearrangement of atoms to produce new substances.	
chemical symbol	A letter or series of letters used to represent an element, e.g. C for carbon, Na for sodium.	
compound	A substance made up of two or more different elements chemically bonded together.	
element	A substance made of only one type of atom.	
mixture	A substance consisting of two or more substances not chemically combined together.	mixtures
ompounds		Compound Formulae
compound		
ore elemer compound he atoms a	is a substance made when two or nts are chemically bonded together. I can be represented by a diagram. are shown touching each other or tick that represents a bond.	 The formula of a compound tells you: which elements the compound is made from how many atoms of each element there are. Carbon dioxide has the formula CO₂.
ore elemer compound he atoms a	nts are chemically bonded together. I can be represented by a diagram. are shown touching each other or	 which elements the compound is made from how many atoms of each element there are.