

Lesson	Know	Apply	Extend
5.3.1 Elements	I can state what an element is. <input type="checkbox"/>	I can correctly write down the chemical symbols of 16 elements and, given chemical symbols, write down their names. <input type="checkbox"/>	I can suggest the advantages of using the same chemical symbols in all languages. <input type="checkbox"/>
	I can state the chemical symbols of 16 elements. <input type="checkbox"/>		
5.3.2 Atoms	I can state what an atom is. <input type="checkbox"/>	I can represent atoms and elements using particle diagrams. <input type="checkbox"/>	I can estimate the number of atoms in a sample. <input type="checkbox"/>
	I can state that every element has its own type of atom. <input type="checkbox"/>	I can compare the properties of an atom of an element to the properties of many atoms. <input type="checkbox"/>	I can use a model to draw conclusions about how the properties of atoms together contribute to the properties of an element. <input type="checkbox"/>
5.3.3 Compounds	I can state what a compound is. <input type="checkbox"/>	I can represent elements, mixtures, and compounds using particle diagrams. <input type="checkbox"/>	I can use particle diagrams to help to explain why a compound has different properties to the elements whose atoms it contains. <input type="checkbox"/>
	I can use particle diagrams to classify a substance as an element, mixture, or compound. <input type="checkbox"/>	I can compare the properties of a compound to the properties of the element whose atoms it contains. <input type="checkbox"/>	I can compare and contrast the properties of elements and compounds and give a reason for their differences. <input type="checkbox"/>
5.3.4 Chemical formulae	I can name simple compounds. <input type="checkbox"/>	I can name compounds using their chemical formulae. <input type="checkbox"/>	I can deduce a pattern in the formula of similar compounds and use it to suggest formulae for unfamiliar ones. <input type="checkbox"/>

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	I can use particle diagrams to classify a substance as an element or compound. <input type="checkbox"/>	I can name the elements present and their relative proportions, given chemical formulae. <input type="checkbox"/>	I can find the element whose atoms contribute the greatest mass to the compound, given relative masses of atoms. <input type="checkbox"/>
	I can represent simple compounds using models. <input type="checkbox"/>	I can represent elements, compounds, and mixtures using particle diagrams. <input type="checkbox"/>	
5.3.5 Polymers	I can state what a polymer is. <input type="checkbox"/>	I can represent elements, mixtures, and compounds using particle diagrams and physical models. <input type="checkbox"/>	I can use particle diagrams to predict physical properties of compounds. <input type="checkbox"/>
	I can state some uses of polymers. <input type="checkbox"/>	I can explain how polymer properties make them suitable for their uses. <input type="checkbox"/>	I can compare properties of different polymers. <input type="checkbox"/>
	I can describe the structure of a polymer.	I can explain how polymer properties depend on their molecules.	