

Lesson	Know	Apply	Extend
6.2.1 More about elements	I can state what an element is. <input type="checkbox"/>	I can identify an unknown element from its physical and chemical properties. <input type="checkbox"/>	I can justify the use of specific metals and non-metals for different applications, using data provided. <input type="checkbox"/>
	I can state examples of elements. <input type="checkbox"/>	I can compare the properties of typical metals and non-metals. <input type="checkbox"/>	I can deduce the relationship between the position of an element in the periodic table and its properties. <input type="checkbox"/>
	I can present some simple facts about an element. <input type="checkbox"/>	I can record observations and data on elements. <input type="checkbox"/>	I can use observations and data obtained to form conclusions about given elements. <input type="checkbox"/>
6.2.2 Chemical reactions of metals and non-metals	I can state that many elements react with oxygen to form oxides. <input type="checkbox"/>	I can use particle diagrams to represent oxidation reactions. <input type="checkbox"/>	I can decide whether a word equation represents an oxidation reaction. <input type="checkbox"/>
	I can state what the arrow means in a word equation. <input type="checkbox"/>	I can describe an oxidation reaction with a word equation. <input type="checkbox"/>	I can interpret a word equation to name reactants and products. <input type="checkbox"/>
	I can describe a difference in physical properties between typical metal and non-metal oxides. <input type="checkbox"/>	I can classify the products obtained when typical metal and non-metal elements react with oxygen. <input type="checkbox"/>	I can deduce the physical or chemical changes a metal has undergone from its appearance. <input type="checkbox"/>
6.2.3 Metals and acids	I can describe what happens when metals react with acids. <input type="checkbox"/>	I can compare the reactions of different metals with dilute acids. <input type="checkbox"/>	I can suggest how temperature changes may be linked with differences in reactivity between metals with acid. <input type="checkbox"/>
	I can state that when a metal reacts with an acid the products are a salt and hydrogen gas. <input type="checkbox"/>	I can predict the names of the products formed in a metal-acid reaction, and describe the reaction with a word equation or represent it with a particle diagram. <input type="checkbox"/>	

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	I can state which metals produce bubbles when reacting with acid. <input type="checkbox"/>	I can decide which metals react more vigorously from practical observations. <input type="checkbox"/>	
6.2.4 Metals and oxygen	I can state the product of reactions between metals and oxygen. <input type="checkbox"/>	I can compare the reactions of different metals with oxygen. <input type="checkbox"/>	I can explain the reactivity of metals according to how they react with oxygen. <input type="checkbox"/>
	I can name one metal that reacts vigorously with oxygen and one metal that does not react with oxygen. <input type="checkbox"/>	I can describe an oxidation reaction with a word equation. <input type="checkbox"/>	I can justify the use of specific metals for different applications, using data provided. <input type="checkbox"/>
	I can make observations about how different metals react with oxygen. <input type="checkbox"/>	I can rank metals in order of how vigorously they react with oxygen. <input type="checkbox"/>	I can deduce the physical or chemical changes a metal has undergone from its appearance. <input type="checkbox"/>
6.2.5 Metals and water	I can state the products of the reaction between metals and water. <input type="checkbox"/>	I can compare the reactions of different metals with oxygen. <input type="checkbox"/>	I can link a metal's reactions with its place in the reactivity series. <input type="checkbox"/>
	I can state whether a metal is more or less reactive than another metal. <input type="checkbox"/>	I can use the reactivity series to predict reactions, and place an unfamiliar metal into the reactivity series based on information about its reaction. <input type="checkbox"/>	I can deduce a rule from data about which reactions will occur or not, based on the reactivity series. <input type="checkbox"/>
	I can write a simple method to find out how easily metals react with acids or water. <input type="checkbox"/>	I can plan a practical to compare the reactivity of three metals, including identifying control variables and planning how to control them. <input type="checkbox"/>	I can write a suitable fair test question and plan in detail which variables to control and how to control them. <input type="checkbox"/>
6.2.6 Metal displacement reactions	I can state which metal is more reactive in a pair of named metals. <input type="checkbox"/>	I can predict if a given pair of substances will react in displacement reactions. <input type="checkbox"/>	I can explain predictions about displacement reactions. <input type="checkbox"/>

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	I can state where different metals are found in the reactivity series. <input type="checkbox"/>	I can use the reactivity series to explain displacement reactions. <input type="checkbox"/>	I can devise a model to explain displacement reactions. <input type="checkbox"/>
	I can use observations from experiments to state whether or not a displacement reaction has occurred. <input type="checkbox"/>	I can use word equations and particle diagrams to represent displacement reactions. <input type="checkbox"/>	I can suggest the identity of unknown metals, given information about their reactions. <input type="checkbox"/>