



Year 8	The Periodic Table & Metals and their uses		14 Lessons
<b>Aims:</b> This unit of work is designed to introduce students to The Periodic Table, having a particular focus on Metals and their uses.			
<b>Links to KS4:</b> Chapter 1 Chemistry – The Periodic Table Chapter 2 Chemistry – Bonding in metals Chapter 3 Chemistry – Formula mass			
Key Skills		Literacy Links:	Numeracy Links:
<ul style="list-style-type: none"><li>To develop an understanding of The Periodic Table.</li><li>To develop an understanding of why metals are used in the World.</li><li>To develop practical skills in a Science labs.</li></ul>		<b>Key Words:</b> <b>metal, group, period, alkali metals, halogens, metallic</b> Be able to read and use these keywords within Scientific situations both verbally and written.	Be able to calculate relative formula mass using a Scientific calculator.
Assessment		Cross-Curricular Links	
<ul style="list-style-type: none"><li><i>Pink sheet teacher assessed activity – Alloys.</i></li><li><i>50 mark test which will focus on the following key areas: Layout/development of the periodic table, trends in the Periodic Table, Physical and Chemical changes, Corrosion and Reactions of metals with water/acid.</i></li></ul>		<ul style="list-style-type: none"><li>History – The history of the Periodic Table.</li></ul>	
		SMSC opportunities and British values	
Opportunities for further learning			
Homework for year 8 is set on a weekly basis. Below are a range of different activities which could be used throughout the unit.			
<b>Option 1:</b> Students could research catalytic convertors including cost in different cars etc.			
<b>Option 2:</b> Students could research electrolysis and why it is used.			
<b>Option 3:</b> Research and bring in notes about the physical and chemical properties of metals.			
<b>Option 4:</b> Students research the electronic structure of a range of different metals and compare them.			
<b>Option 5:</b> Research the properties of group 7 (Halogens).			
<b>Option 6:</b> Research a range of used of alloys.			
<b>Option 7:</b> Drawing a graph.			
<b>Option 8:</b> Research Newland and his influence on the development of the Periodic Table.			
<b>Option 9:</b> Finding a range of examples of chemical and physical changes.			