Year 8 Metals and their uses & The Periodic Table	14 Lessons
Stage	**Description**
Emerging	You can state the definition of a physical and chemical property. You can point out where the metals and non-metals are on the periodic table. You can list properties of metals and non-metals. You can state basic features of the periodic table e.g. groups and periods. You can state a trend in the periodic table. You can state some properties of ceramics, polymers and composites. You can define the term catalyst.
Developing	You can describe the difference between a physical and chemical property. You can describe the basic features of the periodic table. You can describe properties of metals and non-metals. You can describe the chemical properties of metal and non-metal oxides with respect to acidity. You can recognize the order of metals and carbon in the reactivity series. You can describe how carbon is used to obtain metals from metal oxides. You can describe uses of catalysts.
Secure	You can compare chemical and physical properties by giving examples. You can use the periodic table to predict if a reaction will happen or not. You can compare the properties of metals and non-metals. You can use the reactivity series to predict whether a reaction will happen or not. You can use the properties of ceramics, polymers and composites to predict what they are used for. You can compare the acidity of metal and non-metal oxides. You can explain why catalysts are used and give examples of their use. You can explain why carbon is used to obtain metals from metal oxides. You can explain how the periodic table was developed.
Excellence	You can justify the difference between a physical and chemical property by giving examples. You can evaluate the layout of Mendeleev's Periodic Table. You can create your own product by using the properties of metals, non-metals, ceramics, polymers and composites. You can create your own method to test the acidity of metal and non-metal oxides. You can formulate our own reactions by using the reactivity series. You can predict patterns in reactions by referring to the periodic table. You can predict how carbon is used to obtain metals from metal oxides. You can argue the importance of catalysts.