	Science KS3 Assessment Framework				
	Beginning	Working Towards	Expected	Exceeding	Excelling
	Grade 1	Grade 2-3	Grade 4-5	Grade 6-7	Grade 8-9
	l can:	l can:	I can:	l can:	l can:
	Identify reactants and products from a word equation	write word equations from information given about a chemical reaction	State that the mass of reactants in a chemical reaction equals the mass of products formed- known as conservation of mass	Use diagrams to show why the mass of reactants = mass of products	Use partical diagrams to describe what happen in a combustion reaction
	Name a fuel	state that fuels are you used to supply energy	state that fuels react with oxygen in a combustion reaction to produce energy.	Write a word equation for a a hydrocarbon fuel reacting with oxygen	Explain advantages of using renewable fuels suc as hydrogen
	Name 1 fossil fuel	Name 3 fossil fuels	Dexcribe fuels as a chemical store of energy	Explain what a renewable fuel is and give examples	Predict the products of a decomposition reactio of a given metal nitrate
	To state that exothermic and endothermic reactions are linked with temperature changes	State what thermal decomposition is	Explain what a non-renewable fuel is and give examples	Write word equations for thermal decomposition reactions	Balance symbol equations.
Chemical Reactions		Safely carry out a practical of the thermal decomposition of a metal carbonate	State energy transfers in combustion reactions	Use partical diagrmas to show what happens in a decomposition reaction	Explain why balancing symbol equations is necessary.
		State that in exothermic reactions the temperature increases	Calculate the masses of reactants or products	Predict the products of a decomposition reaction of a given metal carbonate	State whether the reactants or products have more energy in an exothermic/endothermic reaction
		State that in endothermic reactions the temperature decreases	Explain observations about mass in physical and chemical reactions	Use symbols to represent chemical reactions	Use bond energy values to predict if a reaction endothermic or exothermic.
		Carry out a practical and use the results to classify the reaction as exothermic or endothermic	Give examples of exothermic and endothermic changes	Idenify whether an energy profile diagram is showing an exothermic or endothermic reaction	
			Describe bond making as an exothermic process and bond breaking as endothermic	Use energy level diagrams to explain energy changes in changes of state and chemical reactions	
				State what happens to chemical bonds during exothermic and endothermic reactions	
				State what a catalyst is	