Outcomes	0	1	2	3	4
I can investigate and describe properties of materials	Not Done	States, properties and qualitative and quantitative data is explained with many errors using the reaction	States, properties and qualitative and quantitative data is explained with a few errors using the reaction	States, properties and qualitative and quantitative data is explained correctly using the reaction	States, properties and qualitative/quantitative data is explained correctly and clearly using the reaction
I can identify conditions where properties of a material are changed, possibly where a new material is produced	Not Done	Possible observations for the chemical reaction are provided and explained with many errors	All possible observations for the chemical reaction are provided and explained with a few errors	All possible observations for the chemical reaction are provided and explained	All possible observations for the chemical reaction are provided and explained clearly.
I can observe and describe *patterns* of a chemical change, identify chemical reaction as exothermic or endothermic and modify the rate of a chemical reaction	Not Done	The reaction is incorrectly identified as exothermic or endothermic. Ways to speed up or slow the reaction are explained incorrectly	The reaction is identified as exothermic or endothermic, reasons why are explained unclearly or with a few errors. Ways to speed up or slow the reaction are explained with errors	The reaction is identified as exothermic or endothermic, reasons why are explained. Ways to speed up or slow the reaction are explained briefly	The reaction is identified as exothermic or endothermic, reasons why are explained in detail. Ways to speed up or slow the reaction are explained
I can identify evidence for conservation of a chemical substance, identify & apply techniques for identifying amounts of products & reactants in a chemical reaction (Law of Conservation of Mass)	Not Done	The reactants and products are identified incorrectly and/or they are used to explain the law of conservation of mass with a many errors	The reactants and products are identified correctly and they are used to explain the law of conservation of mass with a few errors	The reactants and products are identified correctly and they are used to correctly explain the law of conservation of mass	The reactants and products are identified correctly and they are used to correctly explain the law of conservation of mass in detail.
I can use the periodic table to identify the number of protons, neutrons and electrons and other information	Not Done	Few elements found within the compounds in the reaction are identified and in two elements the number of protons, electrons and neutrons are identified with many errors	Most elements found within the compounds in the reaction are identified and in two elements the number of protons, electrons and neutrons are identified with a some errors	Most elements found within the compounds in the reaction are identified and in two elements the number of protons, electrons and neutrons are identified correctly	All elements found within the compounds in the reaction are identified and in two elements the number of protons, electrons and neutrons are identified correctly
I can distinguish between ionic and molecular compounds and describe the properties of each	Not Done	Compounds within the reaction are incorrectly identified as ionic or molecular with incorrect characteristics	Compounds within the reaction are identified as ionic or molecular with no reasons why and few correct possible characteristics	Compounds within the reaction are identified as ionic or molecular with brief reasons why and brief possible characteristics	Compounds within the reaction are identified as ionic or molecular with reasons why and possible characteristics
I can describe familiar chemical reactions and represent these reactions using word equations and chemical formulas	Not Done	Reactants/products proper names are not used. When changed the equation cannot be adapted to stay balanced	Reactants/products proper names used are mostly correct. when changed the equation can be adapted to stay balanced with errors	Reactants/products proper names used are mostly correct. when changed the equation can be adapted to stay balanced with few errors	Reactants/products proper names are used correctly and when changed the equation can be adapted to stay balanced.