KS3 'Stages of Excellence' - Science

Year 9	Novice	Developing	Secure	Extending
Skills	• Can write a simple method • Can name some risks and hazards when doing practical work • Can read and follow a method • Can make simple analyses of data from an experiment	• Can write a method, giving step-by-step instructions in a logical order • Can complete a risk assessment, including risks, hazards and precautionary actions • Can read and follow a method, paying attention to the order of steps • Can analyse data from an experiment to identify trends	• Can write a detailed method, giving step-by-step instructions in a logical order • Can complete a risk assessment, including risks, hazards and matching precautionary actions • Can read and follow a more complicated method, paying attention to the order of steps • Can analyse data from an experiment to identify trends in greater detail	• Can write a detailed method, written in a logical order and including details on all necessary equipment and measurements • Can complete a detailed risk assessment, which evaluates the level of risk for each hazard • Can read and follow advanced methods, involving difficult practical techniques and precise measurements. • Can analyse data from an experiment and evaluate the experiment for errors and improvements
Knowledge	• Has a basic knowledge and understanding of genetics and evolution • Has a basic knowledge and understanding of chemical reactions and materials • Has a basic knowledge and understanding of pressure and electricity	• Has a developing knowledge and understanding of genetics and evolution • Has a developing knowledge and understanding of chemical reactions and materials • Has a developing knowledge and understanding of pressure and electricity	• Has a detailed knowledge and understanding of genetics and evolution • Has a detailed knowledge and understanding of chemical reactions and materials • Has a detailed knowledge and understanding of pressure and electricity	• Has a mastery of genetics and evolution • Has a mastery of chemical reactions and materials • Has a mastery of pressure and electricity

Year 8	Novice	Developing	Secure	Extending
Skills	• Can write a simple method • Can name some risks and hazards when doing practical work • Can read and follow a method • Can make simple analyses of data from an experiment	• Can write a method, giving step-by-step instructions in a logical order • Can complete a risk assessment, including risks, hazards and precautionary actions • Can read and follow a method, paying attention to the order of steps • Can analyse data from an experiment to identify trends	• Can write a detailed method, giving step-by-step instructions in a logical order • Can complete a risk assessment, including risks, hazards and matching precautionary actions • Can read and follow a more complicated method, paying attention to the order of steps • Can analyse data from an experiment to identify trends in greater detail	• Can write a detailed method, written in a logical order and including details on all necessary equipment and measurements • Can complete a detailed risk assessment, which evaluates the level of risk for each hazard • Can read and follow advanced methods, involving difficult practical techniques and precise measurements. • Can analyse data from an experiment and evaluate the experiment for errors and improvements
Knowledge	• Has a basic knowledge and understanding of health and the body • Has a basic knowledge and understanding of atoms, elements and compounds • Has a basic knowledge and understanding of forces	• Has a developing knowledge and understanding of health and the body • Has a developing knowledge and understanding of atoms, elements and compounds • Has a developing knowledge and understanding of forces	• Has a detailed knowledge and understanding of health and the body • Has a detailed knowledge and understanding of atoms, elements and compounds • Has a detailed knowledge and understanding of forces	• Has a mastery of health and the body • Has a mastery of atoms, elements and compounds • Has a mastery of forces

Year 7	Novice	Developing	Secure	Extending
Skills	• Can write a simple method • Can name some risks and hazards when doing practical work • Can read and follow a method • Can make simple analyses of data from an experiment	• Can write a method, giving step-by-step instructions in a logical order • Can complete a risk assessment, including risks, hazards and precautionary actions • Can read and follow a method, paying attention to the order of steps • Can analyse data from an experiment to identify trends	• Can write a detailed method, giving step-by-step instructions in a logical order • Can complete a risk assessment, including risks, hazards and matching precautionary actions • Can read and follow a more complicated method, paying attention to the order of steps • Can analyse data from an experiment to identify trends in greater detail	• Can write a detailed method, written in a logical order and including details on all necessary equipment and measurements • Can complete a detailed risk assessment, which evaluates the level of risk for each hazard • Can read and follow advanced methods, involving difficult practical techniques and precise measurements. • Can analyse data from an experiment and evaluate the experiment for errors and improvements
Knowledge	• Has a basic knowledge and understanding of cells and microscopes • Has a basic knowledge and understanding of metals, non-metals and the properties of materials • Has a basic knowledge and understanding of energy	• Has a developing knowledge and understanding of cells and microscopes • Has a developing knowledge and understanding of metals, non-metals and the properties of materials • Has a developing knowledge and understanding of energy	• Has a detailed knowledge and understanding of cells and microscopes • Has a detailed knowledge and understanding of metals, non-metals and the properties of materials • Has a detailed knowledge and understanding of energy	• Has a mastery of cells and microscopes • Has a mastery of metals, non-metals and the properties of materials • Has a mastery of energy