Subject: **Mathematics** Year group: **7**

Content Overview:			
Number 4 operations with integers (including negatives), decimals and fractions. Factors, Multiples and Primes Order of operations Percentages Squares and Square Roots Written Calculations	**Algebra** Coordinates Sequences Simplifying Algebra Solving Linear Equations	**Geometry** Angles Constructions Metric and Imperial Measures Performing Transformations Perimeter, Area and Volume Scale Drawing Symmetry	**Statistics and Probability** Averages and Range Relative Frequency Single Event Probability

Key Skills:

To make sure I read the question carefully before I attempt to answer
To present my work neatly and clearly (e.g. equals signs in line)
To be able to show how I get my answer in series of steps from question to answer (showing full working, using words if appropriate)
To communicate correctly mathematically (e.g. NOT to write things like 3 + 4 = 7 x 5 = 35 when evaluating (3 + 4) x 5)
To think carefully before starting a question so that I have some idea how my answer will progress
To know when I can check if my answer is correct
To know how to check that my answer is sensible
To relate new problems to knowledge and techniques I already know
To know how and when to ask for help when I have identified problems or misconceptions

GRADE	DESCRIPTOR
Yr 7 Grade 7	Has a very good understanding of every aspect of the curriculum up to the reporting stage. Knows almost all key facts, is able to demonstrate good understanding of almost all methods (with very few mistakes), presents work carefully and neatly, can communicate mathematically, has developed problem solving skills and patience for tackling unfamiliar problems.
Yr 7 Grade 4/5	Has a good understanding of much of the curriculum up to the reporting stage. Knows most key facts, is able to demonstrate good understanding of most methods, usually presents work carefully and neatly, can communicate mathematically, is developing problem solving skills and patience for tackling unfamiliar problems.
Yr 7 Grade 1	Has some understanding of the curriculum up to the reporting stage. Knows a few key facts, and understands some of the key techniques. Working can be minimal with a focus on getting an answer rather than notation. The pupil may struggle to tackle new problems.

Awarding Grades - Grades will be awarded using numerical grade boundaries on formal assessments.

Subject: **Mathematics** Year group: **8**

Content Overview:			
Number Fractions and Percentages Prime Factor Decomposition Ratio and Proportion Rounding and Estimation	**Algebra** Expansion of Brackets Linear Graphs Simplifying Algebra Solving Linear Equations Speed, Distance and Time Using Formulae	**Geometry** Angles and Bearings Circles and Cylinders Metric and Imperial Units Nets and Surface Area Pythagoras' Theorem Similarity	**Statistics and Probability** Averages and Range Two Event Probability

Key Skills:

To make sure I read the question carefully before I attempt to answer
To present my work neatly and clearly (e.g. equals signs in line)
To be able to show how I get my answer in series of steps from question to answer (showing full working, using words if appropriate)
To communicate correctly mathematically (e.g. NOT to write things like 3 + 4 = 7 x 5 = 35 when evaluating (3 + 4) x 5)
To think carefully before starting a question so that I have some idea how my answer will progress
To know when I can check if my answer is correct
To know how to check that my answer is sensible
To relate new problems to knowledge and techniques I already know
To know how and when to ask for help when I have identified problems or misconceptions

GRADE	DESCRIPTOR
Yr 8 Grade 7	Has a very good understanding of every aspect of the curriculum up to the reporting stage. Knows almost all key facts, is able to demonstrate good understanding of almost all methods (with very few mistakes), presents work carefully and neatly, can communicate mathematically, has developed problem solving skills and patience for tackling unfamiliar problems.
Yr 8 Grade 4/5	Has a good understanding of much of the curriculum up to the reporting stage. Knows most key facts, is able to demonstrate good understanding of most methods, usually presents work carefully and neatly, can communicate mathematically, is developing problem solving skills and patience for tackling unfamiliar problems.
Yr 8 Grade 1	Has some understanding of the curriculum up to the reporting stage. Knows a few key facts, and understands some of the key techniques. Working can be minimal with a focus on getting an answer rather than notation. The pupil may struggle to tackle new problems.

Subject: **Mathematics** Year group: **9**

Content Overview:			
Number Fractions and Percentages Indices and Standard Form Rounding and Estimation	**Algebra** Factorising Inequalities Linear and Non-Linear Graphs Quadratic Functions Sequences Simplifying Algebra Solving Linear Equations	**Geometry** Angles Constructions and Loci Perimeter, Area and Volume Pythagoras' Theorem and Trigonometry Transformations	**Statistics and Probability** Cumulative Frequency Statistical Diagrams Two Event Probability

Key Skills:

To make sure I read the question carefully before I attempt to answer
To present my work neatly and clearly (e.g. equals signs in line)
To be able to show how I get my answer in series of steps from question to answer (showing full working, using words if appropriate)
To communicate correctly mathematically (e.g. NOT to write things like 3 + 4 = 7 x 5 = 35 when evaluating (3 + 4) x 5)
To think carefully before starting a question so that I have some idea how my answer will progress
To know when I can check if my answer is correct
To know how to check that my answer is sensible
To relate new problems to knowledge and techniques I already know
To know how and when to ask for help when I have identified problems or misconceptions

GRADE	DESCRIPTOR
Yr 9 Grade 7	Has a very good understanding of every aspect of the curriculum up to the reporting stage. Knows almost all key facts, is able to demonstrate good understanding of almost all methods (with very few mistakes), presents work carefully and neatly, can communicate mathematically, has developed problem solving skills and patience for tackling unfamiliar problems.
Yr 9 Grade 4/5	Has a good understanding of much of the curriculum up to the reporting stage. Knows most key facts, is able to demonstrate good understanding of most methods, usually presents work carefully and neatly, can communicate mathematically, is developing problem solving skills and patience for tackling unfamiliar problems.
Yr 9 Grade 1	Has some understanding of the curriculum up to the reporting stage. Knows a few key facts, and understands some of the key techniques. Working can be minimal with a focus on getting an answer rather than notation. The pupil may struggle to tackle new problems.

Awarding Grades - Grades will be awarded using numerical grade boundaries on formal assessments.