

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 Written Calculations Estimation	Algebra Sequences Simplifying Algebra Solving Linear Equations Substitution	Geometry Angles Constructions Perimeter and Area Scale Drawing	Statistics and Probability Venn Diagrams Sets Probability
Key Skills:			
<p>To make sure I read the question carefully before I attempt to answer</p> <p>To present my work neatly and clearly (e.g. equals signs in line)</p> <p>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)</p> <p>To communicate correctly mathematically (e.g. NOT to write things like $3 + 4 = 7 \times 5 = 35$ when evaluating $(3 + 4) \times 5$)</p> <p>To think carefully before starting a question so that I have some idea how my answer will progress</p> <p>To know when I can check if my answer is correct</p> <p>To know how to check that my answer is sensible</p> <p>To relate new problems to knowledge and techniques I already know</p> <p>To know how and when to ask for help when I have identified problems or misconceptions</p>			
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 Ratio and Proportion	Algebra Expansion of Brackets Linear Graphs Sequences Simplifying Algebra Solving Linear Equations Speed, Distance and Time Using Formulae	Geometry Angles and Bearings Circles and Cylinders Nets and Surface Area Pythagoras' Theorem Similarity Transformations	Statistics and Probability Averages and Range Statistical Diagrams Probability

Key Skills:
<p>To make sure I read the question carefully before I attempt to answer</p> <p>To present my work neatly and clearly (e.g. equals signs in line)</p> <p>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)</p> <p>To communicate correctly mathematically (e.g. NOT to write things like $3 + 4 = 7 \times 5 = 35$ when evaluating $(3 + 4) \times 5$)</p> <p>To think carefully before starting a question so that I have some idea how my answer will progress</p> <p>To know when I can check if my answer is correct</p> <p>To know how to check that my answer is sensible</p> <p>To relate new problems to knowledge and techniques I already know</p> <p>To know how and when to ask for help when I have identified problems or misconceptions</p>

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.

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

Content Overview:			
Number Fractions and Percentages Indices and Standard Form Ratio and Proportion Rounding and Estimation	Algebra Factorising Inequalities Linear and Non-Linear Graphs Quadratic Functions Simplifying Algebra Solving Simultaneous Equations Solving Linear Equations	Geometry Angles Constructions Perimeter, Area and Volume Pythagoras' Theorem and Trigonometry Congruence of Triangles	Statistics and Probability Averages and Range Two Event Probability Sets Notation and Venn Diagrams
Key Skills:			
<p>To make sure I read the question carefully before I attempt to answer</p> <p>To present my work neatly and clearly (e.g. equals signs in line)</p> <p>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)</p> <p>To communicate correctly mathematically (e.g. NOT to write things like $3 + 4 = 7 \times 5 = 35$ when evaluating $(3 + 4) \times 5$)</p> <p>To think carefully before starting a question so that I have some idea how my answer will progress</p> <p>To know when I can check if my answer is correct</p> <p>To know how to check that my answer is sensible</p> <p>To relate new problems to knowledge and techniques I already know</p> <p>To know how and when to ask for help when I have identified problems or misconceptions</p>			
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.