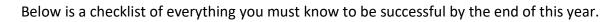
## **Revision 'Must Know' Checklist: Y7 Maths Lower Classes**





Number	Algebra	Geometry and Measures	Ratio and Proportion	Statistics and Probability
<ul> <li>Understand place value and write integers up to 1 billion</li> <li>Work out intervals and position integers on a number line</li> <li>Understand place value for decimals and position decimals on a number line</li> <li>Order decimals</li> <li>Round integers to powers of ten</li> <li>Represent tenths and hundredths as diagrams and on number lines</li> <li>Convert between fractional and decimal fifths and quarters</li> <li>Understand the relationship between fifths and tenths, quarters and hundredths</li> <li>Understand the meaning of a percentage using a hundred square</li> <li>Convert fluently between simple fractions, percentages, and decimals</li> <li>Represent fractions as diagrams and on a number line</li> <li>Work with and use equivalent fractions</li> <li>Use formal methods for addition and subtraction of decimals</li> <li>Solve problems involving addition and</li> </ul>	<ul> <li>Describe and continue a sequence given diagrammatically</li> <li>Predict and check the next term of a sequence</li> <li>Represent sequences in tabular and graphical forms</li> <li>Recognise whether a sequence is linear or non-linear</li> <li>Continue a linear or non-linear sequence</li> <li>Explain the term-to-term rule for linear or non-linear sequences</li> <li>Use correct algebraic notation</li> <li>Use a function machine for numbers and variables</li> <li>Find inputs and outputs of one-step and two-step function machines</li> <li>Find unknown function given inputs and outputs</li> <li>Find the function given the expression</li> <li>Substitute values into single expressions and two step expressions</li> </ul>	<ul> <li>Calculate the area of a rectangle and a parallelogram</li> <li>Calculate the area of a triangle</li> <li>Know how much each of the key metric measures represents</li> <li>Choose the most sensible metric measurement</li> <li>Convert between units of length</li> <li>Describe angles as a measure of turn Classify angles and triangles</li> <li>Draw and measure angles up to 360°</li> <li>Measure lengths and angles in triangles and use this to classify them</li> <li>Use angle notation to describe parallel and perpendicular lines</li> <li>Describe quadrilaterals using knowledge of parallel and perpendicular lines</li> <li>Accurately construct a triangle given three sides, two sides</li> </ul>		<ul> <li>Calculate the mean from a set of data</li> <li>Find the range and median from a list of numbers</li> <li>Understand and use frequency trees and interpret bar charts</li> <li>Use and understand the probability scale</li> <li>Find the probability of a single event</li> <li>Understand and use the knowledge that probabilities sum to 1</li> <li>Understand and use the vocabulary and symbols associated with sets</li> <li>Interpret and create Venn diagrams</li> <li>Understand and use the intersection and union of sets</li> </ul>

- Read the time from both Digital and Analogue formats
- Solve problems involving time
- Use and interpret timetables to solve problems
- Understand and use factors and multiples
- Understand and recognise prime, square, and triangular numbers
- Find common factors of a set of numbers including Highest Common Factor
- Find common multiples of a set of numbers including Lowest Common Multiple
- Write a number as a product of its prime factors
- Understand and correctly apply the order of operations
- Find a fraction of a given amount
- Find a percentage of a given amount
- Calculate percentages from a given percentage
- Understand directed number in context and order directed numbers
- Perform calculations that cross zero
- Perform the four operations with directed numbers
- Convert between mixed numbers and improper fractions
- Add and subtract fractions with the same denominator and different denominators

- Generate sequences by substituting into an expression
- Plot functions as graphs
- Understand the meaning of equality
- Use bar models and fact families
- Form and solve one-step equations involving the four operations
- Understand the meaning of like and unlike terms
- Simplify algebraic expressions by collecting like terms
- Understand the meaning of equivalence and to recognise equivalent expressions
- Substitute into an expression
- Solve one step and two step equations

- and an angle or two angles and a side
- Interpret and draw pie charts
- Understand and use the sum of angles at a point and on a straight line
- Understand and use the equality of vertically opposite angles
- Understand and use the sum of angles on a straight line and in a triangle
- Know and apply the sum of angles in a quadrilateral
- Solve problems using the properties of triangles, quadrilaterals, and other angle rules

•	Add and subtract fractions from		
	integers		
•	Add and subtract improper and mixed		
	fractions		