

## Year 7 Foundation Plus Revision List - April 2019

<u>Objective</u>	<u>Hegarty Maths Clip</u>	<u>Objective</u>	<u>Hegarty Maths Clip</u>
Identify factors and multiples of a number	27	Calculate the perimeter of a rectangle by adding.	549
Find common factors and common multiples of two numbers	27/33	Use appropriate units for the perimeter of a shape.	691
Know the square numbers up to 15x15 and their corresponding roots	99/101	Calculate the perimeter of a triangle and other polygons by adding.	549
Identify prime numbers	28	Measure shapes and find their perimeter.	548
Find the HCF and LCM of two numbers	32/35	Calculate the perimeter of a shape made from rectangles where all the values required are given.	549
Recognise a <b>linear</b> sequence and use the term-to-term rule to generate further terms.	197	Calculate the perimeter of a shape made from triangles, rectangles and other quadrilaterals where all the values required are given.	549
Generate the terms of a <b>linear</b> sequence using the <b>term</b> -to-term rule.	197	Calculate the perimeter of a shape made from rectangles where some of the values required must be calculated.	550
Identify the term-to-term rule of a <b>linear</b> sequence.	197	Calculate the perimeter of a shape made from triangles, rectangles and other quadrilaterals where some of the values required must be calculated.	551
Recognise the sequences of <b>triangular</b> , square and cube numbers and the Fibonacci sequence, and use the term-to-term rule to generate further terms.	261	When given the input, find the output from a function.	288
Recognise <b>quadratic</b> sequences, and use the term-to-term rule to generate further terms.	247	When given the output, find the input for a function.	288
Recognise <b>simple geometric</b> sequences, and use the term-to-term rule to generate further terms.	264	Find the function, when given the input and output.	288
Use algebraic notation and symbols correctly.	151	Understand and use function notation.	288
Understand the vocabulary of algebra, including the words term and factor.	151	Find the value of a function at a given point.	288
Understand that algebraic operations follow the same conventions and order as arithmetical operations.	152	Solve one-step linear equations, e.g. $3x = 9$ , $x - 5 = 8$ , where the answers are positive integers.	178
Simplify expressions involving one variable by collecting like terms.	156	Solve two-step linear equations, e.g. $2x + 1 = 7$ , where the answers are positive integers.	179
Simplify expressions involving more than one variable by collecting like terms.	157	Translate a point when given instructions using left, right, up, down.	637/638
Multiply a number by a bracket.	160	Translate a 2d shape when given instructions using left, right, up, down.	637/638
Multiply a single term by a bracket.	160	Describe the translation of a 2d shape using left, right, up, down.	637/638
Solve simple proportion problems using unitary method	339	Interpret a column vector	637/638
Use proportion in real contexts (direct only).	339	Describe movement using column vectors	637/638
Use proportion in real contexts (including inverse).	342	Translate a 2d shape when given a column vector	637/638
Understand ratio	328	Describe the translation of a 2d shape using a column vector	637/638
Understand and use ratio notation	328	Represent single column vectors graphically.	622
Reduce a ratio to its simplest form	329	Identify the column vector from a diagram (single vector)	623
Use ratio in relation to standard and compound units	330	Multiply a column vector by a scalar and show this graphically.	626
Use scale diagrams and maps	864	Recognise and name polygons	822
Relate ratios to fractions	330	Understand the terminology (e.g. regular, irregular, etc), notation (e.g. for parallel sides, equal, sides, etc) and properties relating to polygons.	822
Express a relationship between two quantities as a ratio or a fraction	330	Use language associated with angle, including angle types	455

Add, subtract, multiply and divide quantities of money, household finance, utility bills, shopping bills	744	Know angles are measured in degrees, estimate and compare acute, obtuse and reflex angles	457
Know and use standard units of mass, length, time, money and other measures	691	Draw and measure acute and obtuse angles to $\pm 2^\circ$	461
Solve problems involving converting between units of time.	709	Draw and measure reflex angles to $\pm 2^\circ$	461
Choose appropriate units for estimating or carrying out measurements	691	Understand and use properties of angles on a straight line	477
Convert between units of measure in the same system	692	Understand and use properties of vertically opposite angles	480
Solve problems involving the addition and subtractions of units of measure.	714	Understand and use properties of angles at a point	479
Round to the nearest integer	17	Understand and use the angle sum of triangles, find missing angles in scalene triangles	485
Round numbers to a given power of ten	17	Understand and use three figure bearings to specify direction	492
Round to a given number of decimal places (including money)	56	Measure the bearing of a point B from a point A	492
Round to any number of significant figures	130	Mark on a diagram the position of the point B given its bearing from point A	492
Calculate speed, distance or time, given the other two	716-724	Measure or draw a bearing between the points on a map or scaled plan	493
Understand perimeter as the distance around a shape.	548		
Find the perimeter of a rectangle by counting.	548		