Maths Target Sheet – Stage 6					
WTS (6.0 - 6.2)		**EXS (6.3 - 6.4)**		**GDS (6.5)**	
Big Ideas				**Connections**	

WTS		EXS		Connections	GDS
1a. I can read and write numbers up to 10 000 000 (ten million)		1b. I can order and compare numbers up to 10 000 000 and determine the value of each digit		*1c. I can round any whole number accurately to 10 000	
				*1d. I can round any whole number accurately to 100 000	
				*1e. I can round any whole number accurately to 1 000 000	
				1f. I can solve practical problems that involve place value & rounding	
				*1g. I can create and solve number and practical problems that involve place value & rounding	
				*1h. I can convert between smaller and larger units of length using decimal notation to 3dp (decimal places) *e.g. 23.4cm = 0.234m*	
2a. I can calculate intervals involving negative numbers across zero *e.g. the interval between -6 and 7 is 13*		*2b. I can solve problems involving negative numbers in context *e.g. temperature difference, profit/loss*		2c. I can order negative numbers on a number line	
				*2d. I can create and solve number and practical problems that involve place value & rounding	
3a. I can multiply and divide decimal numbers by 10, 100, 1000 giving answers to three decimal places *e.g. 23.6 ÷ 1000 = 0.024*				*3c. can convert between smaller and larger units of length using decimal notation to 3dp (decimal places) *e.g. 23.4cm = 0.234m*	
				*3d. I can convert between smaller and larger units of mass using decimal notation to 3dp (decimal places) *e.g. 2.045kg = 2045g*	
				*3e. I can convert between smaller and larger units of volume using decimal notation to 3dp (decimal places) *e.g. 4302ml = 4.302l*	
				3f. I can construct line graphs to show conversions between units *e.g. miles to kilometres, kilograms to pounds*	
*4a. I can multiply ThHTO x TO using long multiplication		4b. I can multiply 0.th x O *e.g. £1.42 x 2 = £2.84*		*4c. I can estimate the answer to a calculation problem and determine, in the context of a problem, a degree of accuracy	
				4d. I can solve practical problems that involve place value & rounding	
				*4e. I can create and solve number and practical problems that involve place value & rounding	
				4f. I can identify common multiples of two numbers *e.g. common multiples of 4 and 6 are 12, 24, 36…*	
				4g. I can identify common factors of two numbers *e.g. 5 and 7 are both common factors of 35 and 105*	
				*21a. I can use simple formulae *e.g. A = l x b to calculate area of a rectangle*	
				*21b. I can calculate the area of triangles by relating them to rectangles	
*5a. I can divide ThHTO ÷ TO using short division with remainders		*5b. I can divide ThHTO ÷ TO using long division interpreting remainders as decimals		5c. I can divide ThHTO ÷ TO using long division, interpreting remainders as fractions *e.g. $432 ÷ 15 = 28\frac{12}{15}$ or $28\frac{4}{5}$*	
				*5d. I can use a written division method in cases where the answer has up to two decimal places	
				3a. I can multiply and divide decimal numbers by 10, 100, 1000 giving answers to three decimal places *e.g. 23.6 ÷ 1000 = 0.024*	
				*5f. I can estimate the answer to a calculation problem and determine, in the context of a problem, a degree of accuracy	
				*22a. I can calculate and interpret the mean average of a set of data	
				5h. I can identify common multiples of two numbers *e.g. common multiples of 4 and 6 are 12, 24, 36…*	
				11a. I can calculate decimal equivalents for a simple fraction *e.g. $\frac{3}{8}$ = 0.375*	
				5i. I can identify common factors of two numbers *e.g. 5 and 7 are both common factors of 35 and 105*	
*6a. I can simplify mental calculations by manipulating the distributive law *e.g. 20 x 7 x 5 = 20 x 5 x 7 = 100 x 7 = 700*				6c. I can identify common multiples of two numbers *e.g. common multiples of 4 and 6 are 12, 24, 36…*	
				6d. I can identify common factors of two numbers *e.g. 5 and 7 are both common factors of 35 and 105*	
*7a. I can solve multi-step problems in contexts involving all				3a. I can multiply and divide decimal numbers by 10, 100, 1000 giving answers to three decimal places *e.g. 23.6*	

four operations				÷ 1000 = 0.024	
				*4a. I can multiply ThHTO x TO using long multiplication	
				4b. I can multiply 0.th x O *e.g. £1.42 x 2 = £2.84*	
				*5a. I can divide ThHTO ÷ TO using short division with remainders	
				7c. I can divide ThHTO ÷ TO using long division, interpreting remainders as fractions *e.g. $432 \div 15 = 28\frac{12}{15}$ or $28\frac{4}{5}$*	
				*7d. I can estimate the answer to a calculation problem and determine, in the context of a problem, a degree of accuracy	
				7e. I can identify common multiples of two numbers *e.g. common multiples of 4 and 6 are 12, 24, 36…*	
				7f. I can identify common factors of two numbers *e.g. 5 and 7 are both common factors of 35 and 105*	
8a. I use my knowledge of the *order* of operations [BIDMAS] to carry out calculations *e.g. (8 − 3) + 5 x 6 = 35*				*8c. I can simplify mental calculations by manipulating the distributive law *e.g. 53 ÷ 7 + 3 ÷ 7 =(53 + 3) ÷ 7 =56 ÷ 7 =8*	
				8d. I can identify common multiples of two numbers *e.g. common multiples of 4 and 6 are 12, 24, 36…*	
				8e. I can identify common factors of two numbers *e.g. 5 and 7 are both common factors of 35 and 105*	
*9a. I can multiply simple pairs of fractions *e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$*		9b. I can divide proper fractions by whole numbers *e.g. $\frac{1}{3} \div 2 = \frac{1}{6}$*		9c. I understand how fractions link to division *e.g. $\frac{2}{5}$ is 2 ÷ 5*	
*10a. I can add and subtract fractions when both denominators are different using equivalent fractions to help *e.g. $\frac{1}{3} + \frac{1}{4} = \frac{7}{12}$*		10b. I can use common factors to simplify fractions *e.g. $\frac{18}{30}$ simplifies to $\frac{3}{5}$ as 6 is a common factor*		10c. I can identify common multiples of two numbers *e.g. common multiples of 4 and 6 are 12, 24, 36…*	
				10d. I can identify common factors of two numbers *e.g. 5 and 7 are both common factors of 35 and 105*	
				10e. I can compare fractions with different denominators using < > = symbols	
				10f. I can order fractions with different denominators, including those greater than 1	
				10g. I can use common multiples to express fractions in the same denomination *e.g. $\frac{1}{2} + \frac{1}{8} = \frac{5}{8}$*	
11a. I can calculate decimal equivalents for a simple fraction *e.g. $\frac{3}{8} = 0.375$*				*11c. I know the fraction, decimal and percentage equivalents for all halves, quarters, fifths and tenths	
				*11d. I know the fraction, decimal and percentage equivalents for all sixths and eighths *e.g. $\frac{5}{8} = 0.625 = 62.5\%$*	
				11e. I can compare fractions with different denominators using < > = symbols	
*12a. I can solve problems involving calculation of percentages *e.g. 15% of 360 for a pie chart*		*12b. I can find percentages of quantities		3a. I can multiply and divide decimal numbers by 10, 100, 1000 giving answers to three decimal places *e.g. 23.6 ÷ 1000 = 0.024*	
				*12c. I know the fraction, decimal and percentage equivalents for all sixths and eighths *e.g. $\frac{5}{8} = 0.625 = 62.5\%$*	
				*12d. I know the fraction, decimal and percentage equivalents for all halves, quarters, fifths and tenths	
*13a. I can compare relative proportions by comparing the *parts to the whole* ["in every"] *e.g. 3 red marbles in a bag of 10 compared to 7 red marbles in a bag of 20.*		*13b. I can solve problems with simple ratios ["for every"] *e.g. share 10 sweets in the ratio 2:3*		13c. I can solve problems involving unequal sharing and grouping using knowledge of fractions and multiples *e.g. $\frac{3}{5}$of the class are boys*	
				13d. I can solve problems involving metres per second	
				13e. I can solve problems involving miles per hour	
				13f. I can convert between miles and kilometres using the approximate equivalence of 1 mile = 1.6 km	
				13g. I can solve problems involving similar shapes where the scale factor is known or can be found	
*14a. I can describe linear number sequences algebraically *e.g. 2, 5, 8 = 3n + 2*		*14b. I can generate linear number sequences *e.g. 2n + 1 = 1, 3, 5, 7, 9…*		14c. I can express missing number problems algebraically *e.g. 5 x ☐ = 35 can be expressed as 5n = 35*	
				14d. I can find pairs of numbers that satisfy an equation with two unknowns *e.g. x + y = 13*	
15a. I can draw 2-D shapes using given dimensions and angles and also label with correct notation		*15b. I can compare and classify geometric shapes based on their properties		15c. I can solve problems involving similar shapes where the scale factor is known or can be found	
16a. I can construct and name 3-D shapes using resources		16b. I can construct nets for simple 3-D shapes *e.g. cubes, pyramids, prisms*		16c. I can solve problems involving similar shapes where the scale factor is known or can be found	
*17a. I can calculate the volume of a cuboid using V = a x b x c		*17b. I can compare the volume of cubes and cuboids in cm³ and m³		*6a. I can simplify mental calculations by manipulating the distributive law *e.g. 20 x 7 x 5 = 20 x 5 x 7 = 100 x 7 = 700*	
				4b. I can multiply 0.th x O *e.g. £1.42 x 2 = £2.84*	
18a. I can illustrate and name parts of circles including radius, diameter and circumference		18b. I know that the diameter of a circle is twice the radius and can use *d = 2 x r* to calculate lengths of parts of circles		18c. I can express missing number problems algebraically *e.g. 5 x ☐ = 35 can be expressed as 5n = 35*	

*19a. I can find unknown angles in any triangle using $a = 180 - (b + c)$		*19b. I can find unknown angles in any quadrilateral using $a = 360 - (b + c + d)$		19c. I can express missing number problems algebraically *e.g. 5 x □ = 35 can be expressed as 5n = 35*
				19d. I can use formulae *e.g. a + b + c = 180°* to calculate angles of a triangle
				*19e. I can calculate the area of parallelograms by relating them to rectangles
20a. I can use knowledge of angles of straight lines, triangles and complete turns to calculate missing angles				20c. I can identify angles where lines meet at a point
				20d. I can annotate and calculate any angles on a straight line knowing that they total 180°
				*19a. I can find unknown angles in any triangle using $a = 180 - (b + c)$
				*19b. I can find unknown angles in any quadrilateral using $a = 360 - (b + c + d)$
*21a. I can use simple formulae *e.g. A = l x b to calculate area of a rectangle*		*21b. I can calculate the area of triangles by relating them to rectangles		21c. I can use formulae *e.g. a + b + c = 180°* to calculate angles of a triangle
				*21d. I can calculate the area of parallelograms by relating them to rectangles
				*4a. I can multiply ThHTO x TO using long multiplication
				4b. I can multiply 0.th x O *e.g. £1.42 x 2 = £2.84*
*22a. I can use co-ordinates to describe positions in all four quadrants of a grid		22b. I can translate a shape in all four quadrants and describe its transformation knowing that its shape hasn't changed		15a. I can draw 2-D shapes using given dimensions and angles and also label with correct notation
				*15b. I can compare and classify geometric shapes based on their properties
				22c. I can predict missing co-ordinates of rectangles, parallelograms and rhombuses using known properties of scale
*22a. I can calculate and interpret the mean average of a set of data				*12b. I can find percentages of quantities
				22c. I can solve problems involving metres per second
				22d. I can solve problems involving miles per hour
				22w. I can convert between smaller and larger units of time remembering to work in base 60 *e.g. 145 minutes = 2hrs 25mins*
				*5a. I can divide ThHTO ÷ TO using short division with remainders
*23a. I can interpret and construct pie charts from my own enquiries		*23b. I can construct line graphs from my own enquiries		23c. I can construct line graphs to show conversions between units *e.g. miles to kilometres, kilograms to pounds*
				*12a. I can solve problems involving calculation of percentages *e.g. 15% of 360 for a pie chart*
				23d. I can solve problems involving metres per second
				23e. I can solve problems involving miles per hour
				23d. I can convert between smaller and larger units of time remembering to work in base 60 *e.g. 145 minutes = 2hrs 25mins*
				*5a. I can divide ThHTO ÷ TO using short division with remainders

Fluency				
*24. I can use all four operations effectively and efficiently		*29. I know the fraction, decimal and percentage equivalents for all halves, quarters, fifths and tenths		34. I can convert between smaller and larger units of time remembering to work in base 60 *e.g. 145 minutes = 2hrs 25mins*
25. I can simplify mental calculations by manipulating the distributive law *e.g. 20 x 7 x 5 = 20 x 5 x 7 = 100 x 7 = 700*		30. I can construct line graphs to show conversions between units *e.g. miles to kilometres, kilograms to pounds*		35. I can perform mental calculations with mixed operations and larger numbers *e.g. (54 x 8) - 222*
26. I can identify some prime numbers above 100		31. I can convert between miles and kilometres using the approximate equivalence of 1 mile = 1.6 km		36. I know the fraction, decimal and percentage equivalents for all sixths and eighths *e.g. $\frac{5}{8} = 0.625 = 62.5\%$*
27. I can describe linear number sequences algebraically *e.g. 2, 5, 8 = 3n + 2*		32. I can generate linear number sequences *e.g. 2n + 1 = 1, 3, 5, 7, 9...l*		37. I can perform mental calculations with mixed operations *e.g. (12 x 6) + (8 x 7)*
28. I can manipulate calculations to make them easier to solve E.g. 3224 ÷ 16 "If you double the dividend and half the divisor, the quotient will remain the same"		33. I can identify common multiples of two numbers *e.g. common multiples of 4 and 6 are 12, 24, 36...*		38. I can identify common factors of two numbers *e.g. 5 and 7 are both common factors of 35 and 105*