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Principal: Mrs C Stanyer

Subject: Mathematics Year 8 Curriculum Map 2024 - 25				
Week Commencing	Topic (including links to additional resources)	Assessment Window		
Staff INSET 02/09 Students Return 03/09	 Number 7 – Fractions concept of a fraction, multiple visual representations - shading shapes, bar models, placing on a number line proper and improper fractions, equivalent fractions, simplifying fractions, comparing the size of fractions through common denominator or common numerator complement of a fraction (able to find 1-p, given p) adding and subtracting fractions, including proper, improper and mixed fraction of an amount by a bar model, expressing one number as a fraction of another, find original amount if you know a fraction of it multiplying and dividing fractions, fraction of an amount (incl. fractions of fractions) with link to multiplying; increasing and decreasing by a fraction by multiplying multiplication of a number by its reciprocal gives 1 (revisit of NP3.5 more formally) order of operations with fractions problems: worded fraction problems; 	1 teacher marked learning checkpoint		
09/09/2024				
16/09/2024				
23/09/2024				
30/09/2024	Algebra 1 – Algebraic Manipulation Generalising number to algebra, concept of an 'unknown variable' Simplifying simple additive linear expressions with no more than three variables Solving simple 'unknown value' problems, using a range of symbols, including blank boxes and letters Substituting numbers for variables presented as a range of symbols, including blank boxes and letters			
07/10/2024		1 teacher marked learning checkpoint		
14/10/2024				
21/10/2024	Assessment Round 1	Achievement Round 1		
October Half Term				
04/11/2024	Assessment Round 1	Achievement Round 1		

Ormiston Meridian Academy is committed to safeguarding and promoting the welfare of children and young people and expects all staff and volunteers to share this commitment.



















	Number 8 –Percentages, fractions and decimals	
11/11/2024 18/11/2024 25/11/2024	 equivalence of FDP, techniques to convert, ordering FDP recurring and terminating decimals multiple representations of percentages - shading shapes, bars percentages of an amount; percentages greater than 100% percentage of an amount with decimal multipliers expressing one number as a percentage of another percentage increase and decrease (finding the percentages and 	1 teacher marked learning checkpoint
02/12/2024	 adding/subtracting), fraction increase and decrease the effect of multiplying by numbers between 0 and 1 compared with numbers greater than 1 applications and problems, including interpreting pie charts and simple interest 	
09/12/2024	Number 9 –Estimation and use of a calculator	
16/12/2024	 Using the calculator effectively timetables - with and without the time button on the calculator. Solving problems with time accurately and by estimating. Converting units of time with/without calculator approximating the position of numbers on a number line, approximate metric/imperial conversions (with a calculator) approximating powers and roots error intervals for rounded numbers, including representing on a number line estimating the answer to calculations related calculations truncation and error intervals 	1 teacher marked learning checkpoint
Christmas Break		
06/01/2025	Algebra 2 – Manipulation and simplifying expressions 1	
13/01/2025	• Algebraic notation $-ab$ for $a \times b$, $3y$ for $y + y + y$ and $3 \times y$, a^4 for $a \times a \times a \times a$, a^2b for $a \times a \times b$, $\frac{a}{b}$ for division, coefficients as fractions not decimals, where brackets can be implied	1 teacher marked learning checkpoint
20/01/2025	 collecting like terms simplifying indices and coefficients when multiplying and dividing, multiplication rule for indices (power of a power) writing algebraic expressions 	
27/01/2025	Assessment Round 2	Achievement Round 2
03/02/2025	Assessment Round 2	Achievement Round 2
10/02/2025	Algebra 3 – Manipulation and simplifying expressions 2 expanding a single bracket, simplifying expressions involving expansion of brackets factorising into a single bracket expanding two simple binomials writing more complex algebraic expressions	1 teacher marked learning checkpoint
February Half Term		

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24/02/2025	Algebra 3 – Manipulation and simplifying expressions 2	
03/03/2025	 expanding a single bracket, simplifying expressions involving expansion of brackets factorising into a single bracket expanding two simple binomials writing more complex algebraic expressions 	1 teacher marked learning checkpoint
10/03/2025	Algebra 4 – Linear equations	
17/03/2025	 understanding equality and balancing simple one-step solutions (four rules) two-step solutions (four rules), including with brackets solving equations with the unknown on both sides 	1 teacher marked learning checkpoint
24/03/2023	 simple equations with the unknown in the denominator applications and problems, including forming and solving equations in a geometric or "real-life" context 	
31/03/2025	Geometry and measure 2 – Polygons and angles	
07/04/2025	 Angles on a straight line, around a point, vertically opposite Naming, labelling and recognising the features of triangles (including sum of angles) Naming, labelling and recognising the features of quadrilaterals (including sum of angles) Naming and recognising the features of other polygons, including interior angles increasing by 180 Angles in parallel lines (alternate, corresponding, co-interior) Bearings 	1 teacher marked learning checkpoint
Easter Break		
28/04/2025	Geometry and measure 2 – Polygons and angles	
05/05/25	 Angles on a straight line, around a point, vertically opposite Naming, labelling and recognising the features of triangles (including sum of angles) Naming, labelling and recognising the features of quadrilaterals (including sum of angles) Naming and recognising the features of other polygons, including interior angles increasing by 180 Angles in parallel lines (alternate, corresponding, co-interior) Bearings 	1 teacher marked learning checkpoint
12/05/2025	Number 10 –Proportional reasoning	
19/05/2025	 direct and inverse proportion Comparing quantities (value for money, exchange rates, etc) Scaling up/down - recipes, shapes (simple enlargements), etc percentage increase and decrease, decimal multipliers finding a percentage change 	1 teacher marked learning checkpoint
May Half Term		
02/06/2025	Number 10 –Proportional reasoning	
09/06/2025	 direct and inverse proportion Comparing quantities (value for money, exchange rates, etc) Scaling up/down - recipes, shapes (simple enlargements), etc 	1 teacher marked learning checkpoint

	 percentage increase and decrease, decimal multipliers finding a percentage change 	
16/06/2025	Assessment Round 3	Achievement Round 3
23/06/2025	Assessment Round 3	Achievement Round 3
30/06/2025	Assessment Round 3	Achievement Round 3
07/07/2025	Number 11 –Ratio	
14/07/2025	 Ratio notation, expressing relationships as ratios Simplifying ratios, including those using fractions scaled up to make integers 	1 teacher marked learning checkpoint
21/07/2025	 Unit ratios, applications to scale drawings and maps Fractions from ratios - expressing each part as a fraction of the whole and writing equivalent ratios as equivalent fractions Finding the value of parts of a ratio given other parts or the whole 	