



Sandon Road, Meir, Stoke-on-Trent, ST3 7DF Telephone: 01782 377100 Fax: 01782 377101

Email: info@omera.co.uk Website: www.ormistonmeridianacademy.co.uk

Principal: Mrs C Stanyer

Subject: Mathematics

Year 7 Curriculum Map 2024 - 25

Week Commencing	Topic (including links to additional resources)	Assessment Window
Staff INSET 02/09 Students Return 03/09	<u>Number 1- Place value & number lines</u>	1 teacher marked learning checkpoint
09/09/2024	<ul style="list-style-type: none"> Integers and decimals in expanded form and in words Order positive integers and decimals, placing on a number line Order positive and negative numbers, placing on a number line, symmetry of the number line about 0 Multiplying and dividing by positive and negative powers of 10 Rounding numbers 'to the nearest', decimal places and significant figures. Common metric conversions Midpoint of two numbers Median of discrete data 	
16/09/2024		
23/09/2024		
30/09/2024		
07/10/2024		<u>Number 2 - Addition & Subtraction</u>
14/10/2024	<ul style="list-style-type: none"> Use a range of strategies for addition and subtraction of positive decimals, including counting up/down in different intervals Use the commutative and associative laws to help calculation Extend additive number sense to unknowns, working with equality Recognise and use complements of a decimal (able to find 1-p, given p) Invert addition and subtraction, exploring additive inverse and additive identities Recognise and use zero pairs in calculations Calculate the perimeter of a polygon Identify basic angle facts (straight line, round a point, vertically opposite, in a triangle) Use addition and subtraction techniques to identify missing angles, making use of basic facts Calculate the mean & range of a dataset Use addition and subtraction techniques in money problems Use addition and subtraction techniques when continuing linear sequences 	
21/10/2024		
October Half Term		
04/11/2024	Assessment Round 1	Achievement Round 1
11/11/2024	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.



18/11/2024	<p style="text-align: center;"><u>Number 2 - Addition & Subtraction</u></p> <ul style="list-style-type: none"> • Use a range of strategies for addition and subtraction of positive decimals, including counting up/down in different intervals • Use the commutative and associative laws to help calculation • Extend additive number sense to unknowns, working with equality • Recognise and use complements of a decimal (able to find 1-p, given p) • Invert addition and subtraction, exploring additive inverse and additive identities • Recognise and use zero pairs in calculations • Calculate the perimeter of a polygon • Identify basic angle facts (straight line, round a point, vertically opposite, in a triangle) • Use addition and subtraction techniques to identify missing angles, making use of basic facts • Calculate the mean & range of a dataset • Use addition and subtraction techniques in money problems • Use addition and subtraction techniques when continuing linear sequences 	1 teacher marked learning checkpoint
25/11/2024	<p style="text-align: center;"><u>Number 3 - Multiplication & Division</u></p> <ul style="list-style-type: none"> • multiplication tables to 12x12 • mental and written strategies for multiplication of positive integers and decimals, formal and informal techniques, commutativity, associativity and distributivity • multiples and LCM (by systematic listing) • division of positive integers and decimals, writing division as a fraction, formal and informal techniques, incl. distributivity; divisibility rules • inverse operations, multiplicative inverse creating the multiplicative identity, non-commutativity and non-associativity of division • extending multiplicative and additive number sense to unknowns • factors and HCF (by systematic listing), coprime numbers • multiplicative reasoning: getting from one number to another by multiplying • rectilinear area • volume of cubes and cuboids • applications and problems, including money problems; simple proportion problems; different bases; method selection (which operation) for worded problems 	1 teacher marked learning checkpoint
02/12/2024		
09/12/2024		
16/12/2024		
Christmas Break		
06/01/2025	<p style="text-align: center;"><u>Geometry and measure 1 - Drawing, Measuring and Constructing</u></p> <ul style="list-style-type: none"> • Points, lines, rays and segments, using a ruler to measure lines, labelling segments correctly • Using a protractor to measure angles, labelling angles correctly, type of angles, estimating angles • Using a compass to draw circles and arcs; construct and equilateral triangle and a hexagon (60/120-degree angles) • Constructing triangles given SSS, SAS, ASA • Constructing a perpendicular bisector, perpendicular from a point on/to a line, angle bisector, know that the shortest distance from a point to a line is the perpendicular, constructing a parallel line • Constructing 30, 45, 90 angles • Simple loci - fixed distance from a point, fixed distance from a line, equidistant from two points, equidistant from two lines 	1 teacher marked learning checkpoint
13/01/2025		
20/01/2025		
27/01/2025		
03/02/2025		

10/02/2025	Assessment Round 2	Achievement Round 2
February Half Term		
24/02/2025	Assessment Round 2	Achievement Round 2
03/03/2025	<p style="text-align: center;"><u>Statistics 1 - Discrete Data</u></p> <ul style="list-style-type: none"> The data handling cycle, using data to address a hypothesis, overview of the types of data, asking good questions Categorical (qualitative) data and frequency tables Graphical representations of categorical data - bar charts, pictograms, pie charts Numerical (quantitative) data - discrete and continuous, ungrouped and grouped frequency tables Graphical representations of discrete numerical data - vertical line, bar charts, pie charts, pictograms, stem and leaf, etc. Measures of central tendency of ungrouped data - mean, mode and median, from lists and from a frequency table, including solving simple problems (such as finding the missing number) Measures of spread - range, interquartile range, outliers (by sight) Compare data sets through graphs, central tendency and spread. Selecting the best graph for the job. Know how graphs can mislead 	1 teacher marked learning checkpoint
10/03/2025		
17/03/2025		
24/03/2023		
31/03/2025	<p style="text-align: center;"><u>Number 4 - Powers, roots and primes</u></p> <ul style="list-style-type: none"> Squares to 15^2 and cubes to 10^3 by heart Calculating powers, evaluating numerical expressions with powers, understanding index form Roots as inverses of powers addition and subtraction rules with positive indices Prime numbers, product of primes, using the primes as building blocks (Fundamental Theorem of Arithmetic), applying the prime factorisation to find the factors of (large) numbers; intro to HCF with primes 	1 teacher marked learning checkpoint
07/04/2025		
Easter Break		
28/04/2025	<p style="text-align: center;"><u>Number 5 – Order of operation</u></p> <ul style="list-style-type: none"> Commutativity and fluency in calculation Order of operations with the four operations Order of operations including exponents Breaking the order of operations with brackets writing numerical expressions using the order of operations; practice with integers and decimals 	1 teacher marked learning checkpoint
05/05/25		
12/05/2025		
19/05/2025		
May Half Term		
02/06/2025	<p style="text-align: center;"><u>Number 6 - Directed Numbers</u></p> <ul style="list-style-type: none"> negative numbers in context (temperature, finance) and on a number line (vertical and horizontal) ordering positive and negative numbers, using symbols, placing on a number line addition of directed numbers 	1 teacher marked learning checkpoint
09/06/2025		

	<ul style="list-style-type: none"> • subtraction of directed numbers (as addition of additive inverse); symmetry of subtraction ($a-b=n$, $b-a=-n$) • multiplication and division with negative numbers • powers of negative numbers • order of operations with negatives • applications (contextual) and problems 	
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	<p style="text-align: center;"><u>Number 6 - Directed Numbers</u></p> <ul style="list-style-type: none"> • negative numbers in context (temperature, finance) and on a number line (vertical and horizontal) • ordering positive and negative numbers, using symbols, placing on a number line • addition of directed numbers • subtraction of directed numbers (as addition of additive inverse); symmetry of subtraction ($a-b=n$, $b-a=-n$) • multiplication and division with negative numbers • powers of negative numbers • order of operations with negatives • applications (contextual) and problems 	1 teacher marked learning checkpoint
14/07/2025		
21/07/2025		