

# St. Mary's Catholic High School LTP MATH (2019-2020)

## YEAR 1 LONG TERM PLAN with CURRICULUM STANDARDS

YEAR 1	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
	Yr1/1	Yr 1/2	Yr1/3	Yr1/4	Yr1/5	Yr1/6	Yr1/7	Yr1/8
	Number and Place value/ Addition	Number and Place value/ Addition	Addition and Subtraction	Fractions/ Shape / Statistics	Number and Place value/ Addition and Subtraction	Number and Place value	Number and Place value/ Addition and Subtraction	Fractions/ Measure/ Position
Term 1	<p><b>N1.1A</b> Count forwards and backwards to and from 100, starting at any given number.</p> <p><b>N1.1B</b> Read, write and say aloud numbers written in figures from 1–100.</p> <p><b>N1.1C</b> Match counting numbers (and also 0) to objects, images or actions.</p>	<p><b>N1.1F</b> Identify missing numbers up to and including 100.</p> <p><b>N1.2B</b> Partition a collection of up to 10 objects, and then up to and including 20 objects, in two.</p> <p><b>N1.2C</b> Solve addition problems involving number bonds up to and including 20.</p>	<p><b>N1.2</b> A Say aloud the number that is 1 more than any number from 0–99 and 1 less than any number from 1–100.</p>	<p><b>N1.3</b> A Recognise, work out and name a half as one of two equal parts of an object or shape and recognise that two-halves make one-whole.</p> <p><b>G1.2A</b> Recognise and say aloud the name of common 2D shapes: rectangles (including squares), circles and triangles.</p>	<p><b>N1.1A</b> Count forwards and backwards to and from 100, starting at any given number.</p> <p><b>N1.1B</b> Read, write and say aloud numbers written in figures from 1–100.</p> <p><b>N1.1C</b> Match counting numbers (and also 0) to objects, images or actions.</p>	<p><b>N1.1A</b> Count forwards and backwards to and from 100, starting at any given number.</p> <p><b>N1.1B</b> Read, write and say aloud numbers written in figures from 1–100.</p> <p><b>N1.1E</b> Understand 2-digit numbers (and also 10) and their place value.</p>	<p><b>N1.1F</b> Identify missing numbers up to and including 100.</p> <p><b>N1.2B</b> Partition a collection of up to 10 objects, then up to and including 20 objects, in two.</p> <p><b>N1.2C</b> Solve addition problems involving number bonds up to and including 20.</p>	<p><b>N1.3A</b> Recognise, work out and name a half as one of two equal parts of an object or shape and recognise that two-halves make one-whole.</p> <p><b>G1.1A</b> Use words only (no numbers) to compare, order and describe different measures.</p>
	Yr1/9	Yr1/10	Yr1/11	Yr1/12	Yr1/13	Yr1/14	Yr1/15	
	Number and Place value/ Addition and Subtraction	Number and Place value/ Measure	Number and Place value/ Addition and Subtraction	Number and Place value/ Addition and Subtraction	Addition and Subtraction	Measure/ Shape/ Statistics	Number and Place value	
Term 1	<p><b>N1.1A</b> Count forwards and backwards to and from 100, starting at any given number.</p> <p><b>N1.1B</b> Read, write and say aloud numbers written in figures from 1–100.</p> <p><b>N1.2B</b> Partition a collection of up to 10 objects, and then up to and including 20 objects, in two.</p>	<p><b>N1.1A</b> Count forwards and backwards to and from 100, starting at any given number.</p> <p><b>N1.1B</b> Read, write and say aloud numbers written in figures from 1–100.</p> <p><b>N1.1C</b> Match counting numbers (and also 0) to objects, images or actions.</p> <p><b>N1.1D</b> Recognise patterns when counting to 100.</p>	<p><b>N1.1A</b> Count forwards and backwards to and from 100, starting at any given number.</p> <p><b>N1.1B</b> Read, write and say aloud numbers written in figures from 1–100.</p> <p><b>N1.1C</b> Match counting numbers (and also 0) to objects, images or actions.</p> <p><b>N1.1D</b> Recognise patterns when counting to 100.</p>	<p><b>N1.1F</b> Identify missing numbers up to and including 100.</p> <p><b>N1.2B</b> Partition a collection of up to 10 objects, and then up to and including 20 objects, in two.</p> <p><b>N1.2C</b> Solve addition problems involving number bonds up to and including 20.</p> <p><b>N1.2E</b> Solve subtraction problems involving number bonds up to and including 20.</p>	<p><b>N1.2D</b> Recognise and use the commutative nature of addition.</p> <p><b>N1.2G</b> Read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) for number bonds up to and including 20.</p>	<p><b>G1.1E</b> Know the meaning of ‘hour’, ‘day’ and ‘week’ and say aloud days of the week in order.</p> <p><b>G1.2B</b> Recognise and say aloud the name of 3D solids: cuboids (including cubes).</p> <p><b>S1.1A</b> Sort objects in a variety of ways and count the number of objects in</p>	<p><b>N1.1C</b> Match counting numbers (and also 0) to objects, images or actions.</p> <p><b>N1.1D</b> Recognise patterns when counting to 100.</p>	<b>Revision and Assessment First term</b>
YEAR 1	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
	Yr1/16	Yr1/17	Yr1/18	Yr1/19	Yr1/20	Yr1/21	Yr1/22	Yr1/23
	Number and Place value/ Fractions/ Measure	Addition and Subtraction	Fractions/ Measure	Addition and Subtraction	Number and Place value/ Addition	Number and Place value/ Addition and Subtraction	Addition and Subtraction	Addition and Subtraction
Term 2	<p><b>N1.1D</b> Recognise patterns when counting to 100.</p> <p><b>N1.3A</b> Recognise, work out and name a half as one of two equal parts of an object or shape and recognise that two-halves make one-whole.</p>	<p><b>N1.2B</b> Partition a collection of up to 10 objects, and then up to and including 20 objects, in two.</p> <p><b>N1.2C</b> Solve addition problems involving number bonds up to and including 20.</p>	<p><b>N1.3A</b> Recognise, work out and name a half as one of two equal parts of an object or shape and recognise that two-halves make one-whole.</p> <p><b>G1.1A</b> Use words only (no numbers) to compare, order and describe different measures.</p>	<p><b>N1.2C</b> Solve addition problems involving number bonds up to and including 20.</p> <p><b>N1.2D</b> Recognise and use the commutative nature of addition.</p> <p><b>N1.2E</b> Solve subtraction problems involving number bonds up to and including 20.</p>	<p><b>N1.1A</b> Count forwards and backwards to and from 100, starting at any given number.</p> <p><b>N1.1B</b> Read, write and say aloud numbers written in figures from 1–100.</p>	<p><b>N1.1A</b> Count forwards and backwards to and from 100, starting at any given number.</p> <p><b>N1.1B</b> Read, write and say aloud numbers written in figures from 1–100.</p>	<p><b>N1.2C</b> Solve addition problems involving number bonds up to and including 20.</p> <p><b>N1.2E</b> Solve subtraction problems involving number bonds up to and including 20.</p>	<p><b>N1.2C</b> Solve addition problems involving number bonds up to and including 20.</p> <p><b>N1.2E</b> Solve subtraction problems involving number bonds up to and including 20.</p>
	Yr1/24	Yr1/25	Yr1/26	Yr1/27	Yr1/28	Yr1/29	Yr1/30	Yr1/31
	Measure/ Statistics	Number and Place value/ Fractions/ Measure	Number and Place value	Number and Place value	Measure/ Shape/ Statistics	Addition and Subtraction/ Measure	Number and Place value	Number and Place value
Term 2	<p><b>G1.1A</b> Use words only (no numbers) to compare, order and describe different measures.</p> <p><b>G1.1B</b> Measure lengths/heights, mass/weight, capacity/volume with nonstandard units.</p> <p><b>S1.1B</b> Sort objects in a variety of ways and count the number of objects in</p>	<p><b>N1.1D</b> Recognise patterns when counting to 100.</p> <p><b>N1.3A</b> Recognise, work out and name a half as one of two equal parts of an object or shape and recognise that two-halves make one-whole.</p>	<p><b>N1.1A</b> Count forwards and backwards to and from 100, starting at any given number.</p> <p><b>N1.1B</b> Read, write and say aloud numbers written in figures from 1–100.</p> <p><b>N1.1C</b> Match counting numbers (and also 0) to objects, images or actions.</p>	<p><b>N1.1C</b> Match counting numbers (and also 0) to objects, images or actions.</p> <p><b>N1.1D</b> Recognise patterns when counting to 100.</p>	<p><b>G1.1A</b> Use words only (no numbers) to compare, order and describe different measures.</p> <p><b>G1.1B</b> Measure lengths/heights, mass/weight, capacity/volume with nonstandard units.</p>	<p><b>N1.2C</b> Solve addition problems involving number bonds up to and including 20.</p> <p><b>N1.2D</b> Recognise and use the commutative nature of addition.</p> <p><b>N1.2E</b> Solve subtraction problems involving number bonds up to and including 20.</p>	<p><b>N1.1A</b> Count forwards and backwards to and from 100, starting at any given number.</p> <p><b>N1.1B</b> Read, write and say aloud numbers written in figures from 1–100.</p>	<p><b>N1.1A</b> Count forwards and backwards to and from 100, starting at any given number.</p> <p><b>N1.1B</b> Read, write and say aloud numbers written in figures from 1–100.</p> <p><b>N1.1C</b> Match counting numbers (and also 0) to objects, images or actions.</p>

## YEAR 2 LONG TERM PLAN with CURRICULUM STANDARDS

YEAR 2	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
	<b>Band 1</b>							
	Number and Place Value	Number and Place Value/ Addition and Subtraction	Addition and Subtraction/ Multiplication and Division	Shape/ Statistics	Number and Place Value/ Addition and Subtraction	Number and Place Value/ Addition and Subtraction/ Measure	Number and Place Value/ Addition and Subtraction	Number and Place Value/ Measure/ Position
	Y 2/1	Y 2/2	Y 2/3	Y 2/4	Y 2/5	Y 2/6	Y 2/7	Y 2/8
	<b>N1.1F</b> Identify missing numbers up to and including 100.	<b>N2.1A</b> Count in steps of 2	<b>N2.2A</b> Know number bonds for 10 and 20.	<b>G2.2A</b> Identify, describe and name 2D shapes.	<b>N2.1A</b> Count in steps of 2	<b>N2.1E</b> Recognise the place value of numbers up to 100.	<b>N1.1C</b> Match counting numbers (and also 0) to objects, images or actions.	<b>N2.1F</b> Compare and order numbers up to 100.

Term 1	numbers up to and including 100. <b>N2.1A</b> Count in steps of 2 from 0, in steps of 5 from 0 and in steps of 10 from 0. <b>N2.1B</b> Understand 0 and count	from 0, in steps of 5 from 0 and in steps of 10 from 0. <b>N2.1C</b> Recognise patterns in digits when counting in 2s from 0 (and so identify odd and even numbers), 5s from 0	numbers up to and including 20. <b>N2.2B</b> Recognise and work out bonds for multiples of 10, up to and including 100. <b>N2.2C</b> Mentally add numbers: a 2-digit number and 1s; a 2-digit	compare simple properties of common 2D shapes; sort the shapes accordingly. <b>G2.2F</b> Recognise symmetry in shapes and objects with a vertical line of symmetry.	from 0, in steps of 5 from 0 and in steps of 10 from 0. <b>N2.1B</b> Understand 0 and count on a number line. <b>N2.1C</b> Recognise patterns in digits when counting in	value of each digit in a 2-digit number (10s and 1s) and write numbers in expanded form. <b>N2.1H</b> Understand and use ordinal numbers to define position rather than amount.	numbers (and also 0) to objects, images or actions. <b>N2.1A</b> Count in steps of 2 from 0, in steps of 5 from 0 and in steps of 10 from 0. <b>N2.1C</b> Recognise patterns in	numbers to 100 and write statements using inequality signs < or >. <b>G2.1A</b> Measure lengths/heights (cm and m) with standard units. <b>G2.1B</b> Choose appropriate
	<b>Band 1</b>			<b>Band 2</b>				
	<b>Addition and Subtraction/ Multiplication and Division</b>	<b>Number and Place Value/ Measure</b>	<b>Number and Place Value/ Addition and Subtraction</b>	<b>Number and Place Value/ Addition and Subtraction</b>	<b>Number and Place Value/ Addition and Subtraction/ Measure</b>	<b>Measure/ Shape</b>	<b>Number and Place Value</b>	
Term 1	Y 2/9 <b>N2.2A</b> Know number bonds for numbers up to and including 20. <b>N2.2C</b> Mentally add numbers: a 2-digit number and 1s a 2-digit number and 10s a 2-digit number and a 1-digit number.	Y 2/10 <b>N2.1A</b> Count in steps of 2 from 0, in steps of 5 from 0 and in steps of 10 from 0. <b>N2.1C</b> Recognise patterns in digits when counting in 2s from 0 (and so identify odd and even numbers), 5s from 0	Y 2/11 <b>N2.1E</b> Recognise the place value of each digit in a 2-digit number (10s and 1s) and write numbers in expanded form. <b>N2.1F</b> Compare and order numbers to 100 and write statements using inequality signs	Y 2/12 <b>N2.1E</b> Recognise the place value of each digit in a 2-digit number (10s and 1s) and write numbers in expanded form. <b>N2.2A</b> Know number bonds for numbers up to and including 20. <b>N2.2B</b> Recognise and work out	Y 2/13 <b>N2.1B</b> Understand 0 and count on a number line. <b>N2.2A</b> Know number bonds for numbers up to and including 20. <b>N2.2B</b> Recognise and work out bonds for multiples of	Y 2/14 <b>G2.1K</b> Tell the time on an analogue clock using quarter past and quarter to the hour. <b>G2.2A</b> Identify, describe and compare simple properties of common 2D shapes; sort the shapes	Y 2/15 <b>N2.1B</b> Understand 0 and count on a number line. <b>N2.1E</b> Recognise the place value of each digit in a 2-digit number (10s and 1s) and write numbers in expanded form.	Revision and Assessment First Term Exam
YEAR 2	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
	<b>Band 2</b>				<b>Band 3</b>			
	<b>Number and Place Value/ Multiplication and Division/ Fractions</b>	<b>Number and Place Value/ Multiplication and Division/ Fractions</b>	<b>Measure/ Statistics</b>	<b>Number and Place Value/ Multiplication and Division/ Fractions</b>	<b>Number and Place Value/ Addition and Subtraction/ Measure</b>	<b>Number and Place Value/ Addition and Subtraction</b>	<b>Number and Place Value/ Addition and Subtraction</b>	<b>Number and Place Value/ Addition and Subtraction</b>
Term 2	Y 2/16 <b>N2.1B</b> Understand 0 and count on a number line. <b>N2.3A</b> Work out doubles up to and including 20. <b>N2.3B</b> Work out related halves for doubles up to and including 20. <b>N2.4C</b> Work out half of an even set of	Y 2/17 <b>N2.1A</b> Count in steps of 2 from 0, in steps of 5 from 0 and in steps of 10 from 0. <b>N2.1C</b> Recognise patterns in digits when counting in 2s from 0 (and so identify odd and even numbers), 5s from 0 and 10s from 0, from any number forwards and	Y 2/18 <b>G1.1F</b> Recognise time in seconds, minutes and hours. <b>G2.1J</b> Know the meaning of 'month' and 'year' and say aloud months of the year. <b>G2.1K</b> Tell the time on an analogue clock using quarter past and quarter to the hour. <b>G2.1L</b> Know the number of hours in a day.	Y 2/19 <b>N2.1A</b> Count in steps of 2 from 0, in steps of 5 from 0 and in steps of 10 from 0. <b>N2.1B</b> Understand 0 and count on a number line. <b>N2.1C</b> Recognise patterns in digits when counting in 2s from 0 (and so identify odd and even numbers), 5s from 0 and 10s from 0, from any	Y 2/20 <b>N2.1F</b> Compare and order numbers to 100 and write statements using inequality signs < or >. <b>N2.2C</b> Mentally add numbers: a 2-digit number and 1s a 2-digit number and 10s a 2-digit number and a 2-digit	Y 2/21 <b>N2.1A</b> Count in steps of 2 from 0, in steps of 5 from 0 and in steps of 10 from 0. <b>N2.1B</b> Understand 0 and count on a number line. <b>N2.1C</b> Recognise patterns in digits when counting in 2s from 0 (and so identify	Y 2/22 <b>N2.1D</b> Read and write numbers in words up to and including 20. <b>N2.1E</b> Recognise the place value of each digit in a 2-digit number (10s and 1s) and write numbers in expanded form. <b>N2.2A</b> Know number bonds for	Y 2/23 <b>N2.1A</b> Count in steps of 2 from 0, in steps of 5 from 0 and in steps of 10 from 0. <b>N2.1C</b> Recognise patterns in digits when counting in 2s from 0 (and so identify odd and even numbers), 5s from 0 and 10s from 0, from any
	<b>Band 3</b>							
	<b>Number and Place Value/ Measure/ Statistics</b>	<b>Number and Place Value/ Multiplication and Division/ Fractions</b>	<b>Addition and Subtraction/ Measure</b>	<b>Number and Place Value/ Multiplication and Division/ Fractions</b>	<b>Measure</b>	<b>Number and Place Value/ Addition and Subtraction/ Multiplication and Division/ Fractions</b>	<b>Number and Place Value/ Addition and Subtraction</b>	
Term 2	Y 2/24 <b>G1.1B</b> Measure lengths/heights, mass/weight, capacity/volume with nonstandard units. <b>N2.1F</b> Compare and order numbers to 100 and write statements using inequality signs < or >. <b>G2.1C</b> Compare measures using simple	Y 2/25 <b>N2.2B</b> Recognise and work out bonds for multiples of 10, up to and including 100. <b>N2.3A</b> Work out doubles up to and including 20. <b>N2.3B</b> Work out related halves for doubles up to and including 20.	Y 2/26 <b>N2.2A</b> Know number bonds for numbers up to and including 20. <b>N2.2C</b> Mentally add numbers: a 2-digit number and 1s a 2-digit number and 10s a 2-digit number and a 2-digit number. <b>N2.2D</b> Mentally subtract numbers:	Y 2/27 <b>N2.1A</b> Count in steps of 2 from 0, in steps of 5 from 0 and in steps of 10 from 0. <b>N2.1C</b> Recognise patterns in digits when counting in 2s from 0 (and so identify odd and even numbers), 5s from 0 and 10s from 0, from any number forwards and backwards. <b>N2.3D</b> Solve 1-step problems involving	Y 2/28 <b>G2.1A</b> Measure lengths/heights (cm and m) with standard units. <b>G2.1B</b> Choose appropriate standard units (cm or m) to use; compare, order and describe lengths/heights, where measures are in the same units, and record the results using	Y 2/29 <b>N2.1A</b> Count in steps of 2 from 0, in steps of 5 from 0 and in steps of 10 from 0. <b>N2.1C</b> Recognise patterns in digits when counting in 2s from 0 (and so identify odd and even numbers), 5s from 0 and 10s from 0, from any	Y 2/30 <b>N2.1B</b> Understand 0 and count on a number line. <b>N2.1E</b> Recognise the place value of each digit in a 2-digit number (10s and 1s) and write numbers in expanded form. <b>N2.1F</b> Compare and order numbers	Revision and Assessment Exam Final
<b>YEAR 3 LONG TERM PLAN with CURRICULUM STANDARDS</b>								
YEAR 3	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
	<b>Term 1</b>							
Term 1	Y3M1 <b>Mental addition and subtraction</b> <b>N2.2C</b> Mentally add numbers: a 2-digit number and 1s a 2-digit number and 10s a 2-digit number and a 2-digit number <b>N2.2D</b> Mentally subtract numbers: a 2-digit number and 1s	Y3M2 <b>Number and place value /Mental</b> <b>N2.2C</b> Mentally add numbers: a 2-digit number and 1s a 2-digit number and 10s a 2-digit number and a 2-digit number <b>N2.2D</b> Mentally subtract numbers: a 2-digit number and 1s	Y3M3 <b>Mental Multiplication and Division/</b> <b>N3.1B</b> Count from 0 in multiples of 3, 4, 50 and 100 <b>N3.3A</b> Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables; recognise and work out	Y3M4 <b>Calender/Time/3D shapes</b> <b>G2.1I</b> Read and write days of the week <b>G2.1J</b> Know the meaning of 'month' and 'year' and say aloud months of the year <b>G2.1K</b> Tell the time on an analogue clock using quarter past and quarter to the hour <b>G2.2B</b> Recognise and say aloud the name of	Y3M5 <b>Comparing and ordering 2 and</b> <b>N2.2D</b> Mentally subtract numbers: a 2-digit number and 1s a 2-digit number and 10s a 2-digit number and a 2-digit number <b>N3.1A</b> Count beyond 100 and	Y3M6 <b>Doubling and halving numbers upto</b> <b>N3.3A</b> Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables; recognise and work out multiplication and division for the 3 and 4 multiplication	Y3M7 <b>Add and Subtract money/Add</b> <b>N2.2C</b> Mentally add numbers: a 2-digit number and 1s a 2-digit number and 10s a 2-digit number and a 2-digit number <b>N2.2D</b> Mentally subtract numbers:	Y3M8 <b>Length /Weight/ Capacity</b> <b>G3.1A</b> Measure lengths (mm, cm and m), weights/masses (g and kg) and capacity (ml and l) with standard units <b>G3.1B</b> Choose appropriate standard units (mm or cm or m; g or kg; ml or l) to
	<b>Term 1</b>			<b>Term 2</b>				
Term 1	Y3M9 <b>Number line/ Round to the nearest</b> <b>N2.2D</b> Mentally subtract numbers: a 2-digit number and 1s a 2-digit number and 10s a 2-digit number and a 2-digit number <b>N3.1A</b> Count beyond 100 and recognise patterns when counting across 100s	Y3M10 <b>Multiplication/ Division with</b> <b>N2.2C</b> Mentally add numbers: a 2-digit number and 1s a 2-digit number and 10s a 2-digit number and a 2-digit number <b>N2.2D</b> Mentally subtract numbers: a 2-digit number and 1s	Y3M1 <b>Place value and ordering 2-digit</b> <b>N3.1A</b> Count beyond 100 and recognise patterns when counting across 100s boundaries to 1 000 <b>N3.1B</b> Count from 0 in multiples of 3, 4, 50 and 100	Y3M2 <b>Recognise and sort multiples of 2,3,4,5</b> <b>N3.1B</b> Count from 0 in multiples of 3, 4, 50 and 100 <b>N3.2A</b> Add several 1-digit and 2-digit numbers (up to and including 20) <b>N3.2B</b> Recognise and work out bonds for numbers to 100	Y3M3 <b>Fractions</b> <b>N3.2I</b> Estimate numbers on a number line <b>N3.5A</b> Recognise, find and name unit fractions of a shape (for fractions with denominators up to and including 10)	Y3M4 <b>Recognising angles/ 2-D</b> <b>G2.2A</b> Identify, describe and compare simple properties of common 2D shapes; sort the shapes accordingly <b>G3.1A</b> Measure lengths (mm, cm and m), weights/masses (g and kg) and capacity	Y3M5 <b>Mentally subtract</b> <b>N2.2D</b> Mentally subtract numbers: a 2-digit number and 1s a 2-digit number and 10s a 2-digit number and a 2-digit number <b>N3.1A</b> Count beyond 100 and	Revision
YEAR 3	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8

		WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	
		Term 2					Term 3			
Term 2		Y3M6	Y3M7	Y3M8	Y3M9	Y3M10	Y3M1	Y3M2	Y3M3	
		<b>Add two 3- digit numbers &amp; 2 and 3</b> N3.1A Count beyond 100 and recognise patterns when counting across 100s boundaries to 1 000 N3.1C Read, write and say aloud numbers written in figures from 100 to 1	<b>Add numbers with up to three</b> N2.2C Mentally add numbers: a 2-digit number and 1s a 2-digit number and a 2-digit number N3.1D Recognise the place value of each digit in a 3-digit number (100s,	<b>Time and Time intervals/Solve word</b> G3.1M Show and write the times: o'clock, half past, quarter past and quarter to the hour G3.1N Know the number of minutes in one hour and the number of seconds in one minute	<b>Mentally subtract numbers/Estimate</b> N3.1A Count beyond 100 and recognise patterns when counting across 100s boundaries to 1 000 N3.1C Read, write and say aloud numbers written in figures from 100 to 1 000	<b>Doubling and Halving numbers</b> N3.3A Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables; recognise and work out multiplication and division for the 3 and 4 multiplication	<b>Add several one and two digit</b> N3.2B Recognise and work out bonds for numbers to 100 N3.2C Mentally add numbers: a 3-digit number and 1s a 3-digit number and 10s a 3-digit number and 100s	<b>Use function machine to multiply</b> N3.3A Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables; recognise and work out multiplication and division for the 3 and 4 multiplication	<b>Divide with and without</b> N3.2J Estimate the answer to a calculation Week 23 remainders; use the grid method to multiply 2-digit numbers by 3, 4, 5 and 8; begin to estimate products	
		Term 3								
Term 2		Y3M4	Y3M5	Y3M6	Y3M7	Y3M8	Y3M9	Y3M10		
		<b>Barchart/Pictograms/Compare and</b> N3.1F Compare and order numbers to 1 000 and write statements using inequality signs < or > G3.1A Measure lengths (mm, cm and m), weights/masses (g and kg) and	<b>Addition and subtraction/Word</b> N3.2A Add several 1-digit and 2-digit numbers (up to and including 20) N3.2B Recognise and work out bonds for numbers to 100 N3.2C Mentally add numbers: a 3-digit number and 1s	<b>Column addition /Subtract using</b> N3.2D Mentally subtract numbers: a 3-digit number and 1s N3.2B Recognise and work out bonds for numbers to 100 N3.2E Add numbers with two digits, using formal written methods of column	<b>Mentally subtract numbers on a</b> N3.2D Mentally subtract numbers: a 3-digit number and 1s N3.2B Recognise and work out bonds for numbers to 100 N3.2F Add numbers with up to three digits, using formal written methods of column	<b>Parallel, perpendicular/Vertical</b> G3.1M Show and write the times: o'clock, half past, quarter past and quarter to the hour G3.1N Know the number of minutes in one hour and the number of seconds in one minute	<b>Grid method multiplication/</b> N3.2J Estimate the answer to a calculation N3.3A Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables; recognise and work out	<b>Addition/Subtraction/Multiplicati</b> N3.2A Add several one-digit and two-digit numbers (up to and including 20) N3.2B Recognise and work out bonds for numbers to 100 N3.2C Mentally add numbers:	<b>Revision</b>	

## YEAR 4 LONG TERM PLAN with CURRICULUM STANDARDS

YEAR 4	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1	Yr 4/1	Yr 4/2	Yr 4/3	Yr 4/4	Yr 4/5	Yr 4/6	Yr 4/7	Yr 4/8
	<b>ADDITION/SUBTRACTION</b> N4.2A Know number bonds to 100 and counting across 1000s boundaries to the next 100. N4.2B Add and subtract integers with up to and including four digits using appropriate mental methods.	<b>N4.1A</b> Recognise patterns when counting across 1000s boundaries to 10 000. <b>N4.1C</b> Read, write and say aloud numbers written in figures from 1000 to 10 <b>N4.3E</b> Use place value, known facts and partitioning to multiply and divide mentally.	<b>4.1A</b> Recognise patterns when counting across 1000s boundaries to 10 000. <b>N4.1B</b> Count from 0 in multiples of 6, 8, 25 and 1000. N4.3A Recall and use multiplication and	<b>N4.5A</b> Know that 1/10 is written 0.1 as a decimal and relate tenths to place value and decimal measures. <b>G3.1A</b> Measure lengths (mm, cm and m), weights/masses (g and kg) and capacity (ml and l) with standard units.	<b>N4.1D</b> Recognise the place value of each digit in a 4-digit number (1000s, 100s, 10s, 1s) and write numbers in expanded form. <b>N4.2C</b> Add and subtract integers	<b>N3.5A</b> Recognise, find and name unit fractions of a shape (for fractions with denominators up to and including 10). <b>N3.5D</b> Compare and order unit fractions, and compare and order fractions with the same denominators (for	<b>N4.1A</b> Recognise patterns when counting across 1000s boundaries to 10 000. <b>N4.2B</b> Add and subtract integers with up to and including four digits using	<b>G3.1E</b> Estimate length/height, mass/weight, volume/capacity and time to the nearest appropriate unit. <b>G4.1B</b> Measure using knowledge of the number system including tenths
Term 1	Yr 4/9	Yr 4/10	Yr 4/11	Yr 4/12	Yr 4/13	Yr 4/14	Yr 4/15	Revision
	<b>OUNDING NUMBERS/ADD/SUBT/3D SHAP</b> N4.1G Round any number to the nearest 10, 100 or 1000. N4.2B Add and subtract integers with up to and including four digits using appropriate mental methods. N4.2C Add and subtract integers with up	<b>PROBLEM SOLVING</b> N3.3E Solve 1-step problems involving multiplying and dividing by 2, 3, 4, 5 and 10. N4.3E Use place value, known facts and partitioning to multiply and divide mentally.	<b>ROUNDING/ADD/SUBT</b> N4.1A Recognise patterns when counting across 1000s boundaries to 10 000. N4.1B Count from 0 in multiples of 6, 8, 25 and 100. N4.1C Read, write and say aloud numbers	<b>FOUR OPERATIONS</b> N4.2B Add and subtract integers with up to and including four digits using appropriate mental methods. N4.2C Add and subtract integers with up to and including four digits, using mental or formal written methods of column	<b>FRACTIONS/MULTI/DIV</b> N3.5E Recognise, find and name equivalent fractions (for fractions with denominators up to and including 10), using pictorial representations. N3.5H Recognise, find and name	<b>S/LINES/2-D SHAPES/SYMMETRY/COORDI</b> G4.2A Identify acute, obtuse and reflex angles; order angles by size. G4.2B Identify pairs of perpendicular, parallel and equal length lines and know the geometric symbol for parallel and equal length lines.	<b>MULTI/DIV/MONEY</b> N4.3A Recall and use multiplication and division facts for the 2, 3, 4, 5 and 10 multiplication tables, including multiples and factor pairs; recognise and	
YEAR 4	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2	Yr 4/16	Yr 4/17	Yr 4/18	Yr 4/19	Yr 4/20	Yr 4/21	Yr 4/22	Yr 4/23
	<b>FOUR</b> N4.2C Add and subtract integers with up to and including four digits, using mental or formal written methods of column addition and subtraction, where appropriate. N4.3D Use known multiplication facts to	<b>ADD/SUBT/WORD PROBLEMS-MONEY</b> N4.2B Add and subtract integers with up to and including four digits using appropriate mental methods. N4.2C Add and subtract integers with up to and including four digits, using mental or formal written methods of	<b>MEASURE/PROBLEM SOLVING/PERIMETER</b> G4.1C Work out equivalents of measure for mm, cm and m (integer answers only). G4.1D Solve problems involving measure, including conversions, comparing, rounding and the four operations (integer	<b>NUMBERS/ADD/SUBT</b> N4.1D Recognise the place value of each digit in a 4-digit number (1000s, 100s, 10s, 1s) and write numbers in expanded form. N4.2B Add and subtract integers with up to and including four digits using	<b>NUMBERS/MULT/PROBLEM</b> N4.1A Recognise patterns when counting across 1000s boundaries to 10 000. N4.3E Use place value, known facts and partitioning to multiply and	<b>NUMBERS/TEMPERATURE</b> G3.1G Compare, order, describe and record temperature (positive integers of degrees Celsius only). N4.1C Read, write and say aloud numbers written in figures from 1000 to 10	<b>MULTI/DECIMALS</b> N4.3D Use known multiplication facts to multiply by multiples of 10 and 100. N4.5A Know that 1/10 is written 0.1 as a decimal and relate tenths to place	<b>MULTI/DIV/FACTORS/DOUBLE/HALVE/M</b> N4.3A Recall and use multiplication and division facts for the 2, 3, 4, 5 and 10 multiplication tables including multiples and factor pairs; recognise and work out multiplication and division for the 6 and 8 multiplication tables (up
Term 2	Yr 4/24	Yr 4/25	Yr 4/26	Yr 4/27	Yr 4/28	Yr 4/29	Yr 4/30	Revision
	<b>APES/2D SHAPES/PERIMETER/AREA/SYMM</b> G2.2D Identify, describe and compare the simple properties of common 3D shapes; sort the shapes accordingly. G2.2E Identify 2D shapes on the surface of 3D solids. G3.2C Draw 2D shapes (not to accurate	<b>FRACTIONS(ADD/SUB)/DECIMALS</b> N3.5E Recognise, find and name equivalent fractions (for fractions with denominators up to and including 10), using pictorial representations. N3.5H Recognise, find and name equivalent fractions (for fractions with	<b>ADD/SUBT/MULTIPLES/FACTORS/PROBLEM</b> N4.2B Add and subtract integers with up to and including four digits using appropriate mental methods. N4.2C Add and subtract integers with up to and including four digits, using mental or formal written methods of	<b>D/SUBT/MULTIPLES/FACTORS/PROBLEM SOLVI</b> N4.2B Add and subtract integers with up to and including four digits using appropriate mental methods. N4.2C Add and subtract integers with up to and including four digits, using mental or formal written methods of column	<b>ATES/BAR CHARTS/LINE GRAPHS/PIC</b> G4.3A Read, write and use coordinates in the first quadrant. S4.1A Interpret and represent data in bar charts and line graphs to show changes over time.	<b>MULTI/FRACTIONS/ADD/SUBT OF</b> N4.3H Multiply 2-digit and 3-digit numbers by a 1-digit number using a formal written method. N4.5C Work out non-unit fractions (for fractions with denominators up to and including 10) of a quantity, using	<b>NUMBERS/MULT/DIV (withor</b> N4.1A Recognise patterns when counting across 1000s boundaries to 10 000. N4.3E Use place value, known facts and partitioning to multiply and	

## St. Mary's Catholic High School MATH (2019-2020)

## YEAR 5 LONG TERM PLAN with CURRICULUM STANDARDS

YEAR 5	TERM 1 WEEK 1	TERM 1 WEEK 2	TERM 1 WEEK 3	TERM 1 WEEK 4	TERM 1 WEEK 5	TERM 1 WEEK 6	TERM 1 WEEK 7	TERM 1 WEEK 8
Term 1	YR 5		GR5/2	GR5/3		GR5/4	GR5/5	
	Number Skills		Number Skills	Number Skills		Number Skills	Number Skills	Geometry
	N5.1B Read, write and say aloud numbers written in figures from 10 000 to 100 000. N5.1C Recognise the place value of each digit in a 5-digit number (10 000s, 1000s, 100s, 10s,	N5.2A Add and subtract positive integers with up to and including five digits, using mental or formal written methods of column addition and subtraction, where appropriate.	N4.3B Multiply and divide numbers by 1 and multiply by 0. N5.1A Count from 0 in multiples of 7, 9 and 11. N5.1D Relate $\frac{1}{10}$ s and 0.01 to the place-value table. N5.3A Recall and use	G5.1B Convert between different metric units of measure (integer and tenths answers only).G5.1C Measure, compare, add and subtract: lengths (m/cm/mm); mass	N5.2A Add and subtract positive integers with up to and including five digits, using mental or formal written methods of column addition and subtraction, where	N5.1A Count from 0 in multiples of 7, 9 and 11. N5.3A Recall and use multiplication and division facts for the 2, 3, 4, 5, 6, 8 and 10 multiplication tables; recognise and	N5.3B Use known multiplication facts to multiply by multiples of powers of 10 up to 100 000. N5.3D Multiply numbers up to and including four digits by a 1- or 2-	G4.2A Identify acute, obtuse and reflex angles; order angles by size. G5.2A Know angles are measured in degrees; know that a full turn is 360°, a half turn is 180° and right angle is

	1s) and write numbers in expanded	N5.2B Use column addition to add	multiplication and division facts for the	(kg/g); volume/capacity (l/ml) (using	appropriate. N5.5L Read, write,	work out multiplication and division	digit number using a formal	90°.
Term 1	<b>TERM 1 WEEK 9</b>	<b>TERM 1 WEEK 10</b>	<b>TERM 1 WEEK 11</b>	<b>TERM 1 WEEK 12</b>	<b>TERM 1 WEEK 13</b>	<b>TERM 1 WEEK 14</b>	<b>TERM 1 WEEK 15</b>	<b>TERM 1 WEEK 16</b>
	N5.1B Read, write and say aloud numbers written in figures from 10 000 to 100 000. N5.1C Recognise the place value of each digit in a 5-digit number (10 000s, 1000s, 100s, 10s, 1s) and write numbers in expanded	N5.2A Add and subtract positive integers with up to and including five digits, using mental or formal written methods of column addition and subtraction, where appropriate. N5.2B Use column addition to add	N5.1B Read, write and say aloud numbers written in figures from 10 000 to 100 000. N5.1C Recognise the place value of each digit in a five-digit number (10 000s, 1000s, 100s, 10s, 1s) and write numbers in expanded form. N5.1D	N5.2A Add and subtract positive integers with up to and including five digits, using mental or formal written methods of column addition and subtraction, where appropriate. N5.2C Estimate the answer to an addition or subtraction calculation.	N5.3A Recall and use multiplication and division facts for the 2, 3, 4, 5, 6, 8 and 10 multiplication tables; recognise and work out multiplication and division for the 7, 9 and 11	S4.1A Interpret and represent data in bar charts and line graphs to show changes over time. G4.2E Identify and name equilateral and right-angled triangles. G5.1B Convert between different metric units of measure	N5.2A Add and subtract positive integers with up to and including five digits, using mental or formal written methods of column addition and subtraction, where appropriate. N5.2B Use column	REVISION
YEAR 5	<b>TERM 2 WEEK 1</b>	<b>TERM 2 WEEK 2</b>	<b>TERM 2 WEEK 3</b>	<b>TERM 2 WEEK 4</b>	<b>TERM 2 WEEK 5</b>	<b>TERM 2 WEEK 6</b>	<b>TERM 2 WEEK 7</b>	<b>TERM 2 WEEK 8</b>
Term 2	GR5/9 Number Skills		Gr5/10 Number Skills	Gr5/11 Geometry	Gr5/12 Number Skills		GR5/13 Number Skills	GR5/14 Number Skills(7)cont.
	N5.3D Multiply numbers up to and including four digits by a 1- or 2-digit number using a formal written method. N5.3E Divide numbers up to and including four digits by 1-digit numbers with integer answers. N5.3F	N5.3C Use place value, known and derived facts and partitioning to multiply and divide mentally. N5.3D Multiply numbers up to and including four digits by a 1- or 2-digit number using a formal written	G4.2A Identify acute, obtuse and reflex angles; order angles by size. G4.2B Identify pairs of perpendicular, parallel and equal length lines and know the geometric symbol for parallel and equal length lines.	N3.5I Understand whole and fractions of a whole (for fractions with denominators up to and including 10) as mixed numbers. N5.5C Compare fractions of quantities (where fractions have denominators up to and including 10) and write statements	N5.2A Add and subtract positive integers with up to and including five digits, using mental or formal written methods of column addition and subtraction, where appropriate. N5.2B Use column	N5.2A Add and subtract positive integers with up to and including five digits, using mental or formal written methods of column addition and subtraction, where appropriate. N5.2C Estimate the answer to an addition or	N5.3C Use place value, known and derived facts and partitioning to multiply and divide mentally. N5.3D Multiply numbers up to and including four digits by a 1- or 2-digit number using a formal	N5.1D Relate $\frac{a}{b}$ $\frac{c}{d}$ and 0-01 to the place-value table. N5.1H Use negative numbers in context of temperature and calculate temperature rise and fall, including across 0. N5.1I Order negative and positive numbers in
Term 2	<b>TERM 2 WEEK 9</b>	<b>TERM 2 WEEK 10</b>	<b>TERM 2 WEEK 11</b>	<b>TERM 2 WEEK 12</b>	<b>TERM 2 WEEK 13</b>	<b>TERM 2 WEEK 14</b>	<b>TERM 2 WEEK 15</b>	<b>TERM 2 WEEK 16</b>
	G4.3 A Read, write and use coordinates in the first quadrant. G5.1C Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) (using decimal measures with the same	N5.2A Add and subtract positive integers with up to and including five digits, using mental or formal written methods of column addition and subtraction, where appropriate. N5.2D Understand when to add and	N5.3A Recall and use multiplication and division facts for the 2, 3, 4, 5, 6, 8 and 10 multiplication tables; recognise and work out multiplication and division for the 7, 9 and 11 multiplication tables (up to $10 \times \dots$ ); be able to identify multiples	N5.3D Multiply numbers up to and including four digits by a 1- or 2-digit number using a formal written method. N5.3E Divide numbers up to and including four digits by 1-digit numbers with integer answers.	G5.1C Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) (using decimal measures with the same number of decimal places, up to	N5.5D Recognise and show families of equivalent fractions, using visual support. G5.1A Solve problems involving money calculations, using addition and subtraction (integer and decimal answers).	G4.1M Compare, order, describe and record temperature (positive and negative integers of degrees Celsius). S4.1A Interpret and represent data in bar charts and line graphs to show changes over	REVISION

## YEAR 6 LONG TERM PLAN with CURRICULUM STANDARDS

YEAR 6	<b>WEEK 1</b>	<b>WEEK 2</b>	<b>WEEK 3</b>	<b>WEEK 4</b>	<b>WEEK 5</b>	<b>WEEK 6</b>	<b>WEEK 7</b>	<b>WEEK 8</b>
Term 1	<u>Term 1</u>	<u>Term 1</u>	<u>Term 1</u>	<u>Term 1</u>	<u>Term 1</u>	<u>Term 1</u>	<u>Term 1</u>	<u>Term 1</u>
	<b>Week 1</b>	<b>Week 2</b>	<b>Week 3</b>	<b>Week 4</b>	<b>Week 5</b>	<b>Week 6</b>	<b>Week 7</b>	<b>Week 8</b>
	N6.1B Read, write and say aloud numbers written in figures up to and including 10 000 000. N6.1C Recognise the place value of each digit in a 6-digit number and write numbers in expanded form.	N6.2A Add and subtract positive integers of any size up to and including 1 000 000 using mental or formal written methods of column addition and subtraction, where appropriate. N6.2B	N5.4B Introduce BIDMAS (order of operations) for +, -, ×, ÷ only. N6.2A Add and subtract positive integers of any size up to and including 1 000 000 using mental or formal written methods of column addition and	G5.1F Convert between 12-hour time and 24-hour time. G5.1G Solve problems involving time, including converting between 12-hour and 24-hour time. N5.4B Introduce BIDMAS (order of	G5.1F Convert between 12-hour time and 24-hour time. G5.1G Solve problems involving time, including converting between 12-hour and 24-hour time.	N6.1C Recognise the place value of each digit in a 6-digit number and write numbers in expanded form. N6.1E Recognise the place value of each digit in a number with 1 or 2 decimal places and write numbers in	N4.5F Add fractions with the same denominator (for fractions with denominators up to and including 10) to give a total greater than 1. N5.5G Add a mixed number and a fraction where both have the same	G5.2E Identify, describe and compare simple properties of common 3D solids; sort the shapes accordingly. N6.8A Use formal algebraic notation to express missing number problems. N6.8B Solve problems by using simple
Term 2	<u>Term 1</u>	<u>Term 1</u>	<u>Term 1</u>	<u>term 1</u>	<u>term 1</u>	<u>term 2</u>	<u>term 2</u>	<u>term 2</u>
	<b>Week 9</b>	<b>week 10</b>	<b>week 11</b>	<b>week 12</b>	<b>week 13</b>	<b>week 14</b>	<b>week 15</b>	<b>week 16</b>
	N6.3A Recall multiplication and division facts for multiplication tables up to and including $12 \times 12$ ; identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers within these	N6.2D Estimate the answer to a money calculation. N6.3D Estimate the answer to a multiplication involving a 1- or 2-place decimal and a whole number. N6.3E Multiply decimals with 1 or 2	N6.4B Use inverse operations and estimation to check calculations. N6.5B Identify, name and write equivalent fractions of a given fraction (with denominators up to and including 10). N6.5D Simplify fractions using common	N6.1C Recognise the place value of each digit in a 6-digit number and write numbers in expanded form. N6.1D Know that 1 million is 1 and six 0s, 2 million is 2 and six 0s and so on up to 10 million.	N6.1E Recognise the place value of each digit in a number with 1 or 2 decimal places and write numbers in expanded form. N6.1F Compare and order numbers up to and including 10 000 000 and	N6.1C Recognise the place value of each digit in a 6-digit number and write numbers in expanded form. N6.1E Recognise the place value of each digit in a number with 1 or 2 decimal places and write numbers in	G5.2G Identify, describe and compare simple properties of triangles and quadrilaterals; sort the shapes accordingly. N6.4C Sustain a line of enquiry; make	Revision
YEAR 6								
Term 2	<u>term 2</u>	<u>term 2</u>	<u>term 2</u>	<u>term 2</u>	<u>Term 2</u>	<u>Term 2</u>	<u>Term 2</u>	<u>Term 2</u>
	<b>week 1</b>	<b>week 2</b>	<b>week 3</b>	<b>week 4</b>	<b>week 5</b>	<b>Week 6</b>	<b>Week 7</b>	<b>Week 8</b>
	N6.1C Recognise the place value of each digit in a 6-digit number and write numbers in expanded form. N6.1D Know that 1 million is 1 and six 0s, 2 million is 2 and six 0s and so on up to 10 million.	N5.3K Identify prime numbers up to 100. N6.3F Divide numbers up to and including four digits by 1-digit numbers with remainders written as fractions. N6.3H Divide numbers up to four digits	N6.1C Recognise the place value of each digit in a 6-digit number and write numbers in expanded form. N6.1E Recognise the place value of each digit in a number with 1 or 2 decimal places and write numbers in	G6.2A Know that angles on a straight line add up to $180^\circ$ , and find one missing angle on a straight line; recognise that angles where they meet at a point are on a straight line and use this to find missing angles; recognise	N6.1C Recognise the place value of each digit in a 6-digit number and write numbers in expanded form. N6.1E Recognise the place value of each digit in a number with 1 or 2	N6.4C Sustain a line of enquiry; make and test a hypothesis. N6.4D Look for patterns and write rules; use a systematic approach. N6.5A Work out unit and non-unit fractions (with denominators up to and	N6.1B Read, write and say aloud numbers written in figures up to and including 10 000 000. N6.1C Recognise the place value of each digit in a 6-digit number and write	N5.4B Introduce BIDMAS (order of operations) for +, -, ×, ÷ only. N6.1C Recognise the place value of each digit in a 6-digit number and write numbers in expanded form. N6.1E Recognise the place value of each
Term 2	<u>term 2</u>	<u>Term 2</u>	<u>Term 2</u>	<u>Term 2</u>	<u>Term 2</u>	<u>Term 2</u>	<u>Term 2</u>	<u>Term 2</u>
	<b>Week 9</b>	<b>Week 10</b>	<b>Week 11</b>	<b>Week 12</b>	<b>Week 13</b>	<b>week 14</b>	<b>week 15</b>	<b>MOCK EXAMS</b>
	N6.1C Recognise the place value of each digit in a 6-digit number and write numbers in expanded form. N6.1E Recognise the place value of each digit in a number with 1 or 2 decimal places and write numbers in	N6.1H Round any decimal, up to and including 2 decimal places, to the nearest whole number. N6.2D Estimate the answer to a money calculation. N6.3F Divide numbers up to and	G5.1C Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) (using decimal measures with the same number of decimal places, up to and including 2 decimal places).	G4.2A Identify acute, obtuse and reflex angles; order angles by size. G6.1F Find perimeters of regular and irregular polygons by measuring and by calculating. G6.1G Recognise and use the formula for	N6.1C Recognise the place value of each digit in a 6-digit number and write numbers in expanded form. N6.1D Know that 1 million is 1 and six 0s, 2 million is 2 and six 0s and	N6.3A Recall multiplication and division facts for multiplication tables up to and including $12 \times 12$ ; identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers within these	Revision	

## YEAR 7 LONG TERM PLAN with CURRICULUM STANDARDS

YEAR7	<b>WEEK 1</b>	<b>WEEK 2</b>	<b>WEEK 3</b>	<b>WEEK 4</b>	<b>WEEK 5</b>	<b>WEEK 6</b>	<b>WEEK 7</b>	<b>WEEK 8</b>
	YR7/1	YR 7/2	YR7/3	YR7/4	YR7/5	YR7/6	YR7/7	YR7/8

Term 1	<b>Unit2-Number Skills</b> Factors,primes and multiples.HCF & LCM using venn diagram.Using negative numbers	<b>Unit2-Number Skills</b> Squares and square roots.More powers and roots. Using formulae (Revision: Multiplying and dividing)	<b>Unit3-Equations /formulae</b> Using formulae and Writing formulae (Revision: Simplifying and writing algebraic expression)	<b>Unit3-Equations /formulae</b> Brackets and powers, Factorising expressions + Assessment	<b>Unit7-Equations</b> Solving two-step equation and more complex equation(Revision: Solving one-step equation)	<b>Unit7&amp;4-Equations&amp;Fractions</b> Trial & improvement, use division to write a fraction as a decimal (Revision- Working with fractions, Adding & subtracting fractions)	<b>Unit4-Fractions</b> Multiplication and division of fraction, Working with mixed numbers	<b>Unit5-Angles and shapes</b> Angles and parallel lines,Use the properties of triangles to work out unknown angles + Assessment
	YR7/9	YR 7/10	YR7/11	YR7/12	YR7/13	YR7/14	YR7/15	
Term 1	<b>Unit5-Angles and shapes</b> Quadrilaterals, Interior and exterior angles of a Polygons, Geometrical proofs	<b>Unit1- Analysing and Displaying data</b> Compare the sets of data using averages and range, Grouped data	<b>Unit1- Analysing and Displaying data</b> Interpret and draw line graphs and pie charts + Assessment	<b>Unit9-Perimeter,area and volume</b> Area of triangles,parallelograms & trapezium,Area and perimeter of compound shapes (Revision:Properties of 3D solids)	<b>Unit9&amp;3(in Delta2)</b> Surface area & Volume of cube, cuboid and triangular prism	<b>Unit3(delta2)-3dsolids</b> Area and circumference of a circle,Area and perimeter of quarter circle and semi circle	Revision Reinforce all the concepts taught and discuss the worksheets.	
	YR7/16	YR7/17	YR7/18	YR7/19	YR7/20	YR7/21	YR7/22	YR7/23
YEAR 7	<b>WEEK 1</b>	<b>WEEK 2</b>	<b>WEEK 3</b>	<b>WEEK 4</b>	<b>WEEK 5</b>	<b>WEEK 6</b>	<b>WEEK 7</b>	<b>WEEK 8</b>
Term 2	<b>Unit6-Decimals(5)</b> Rounding decimals, Multiplying decimals(Revision ordering decimals, Addition and subtraction of decimals)	<b>Unit6-Decimals(5)</b> Division of decimals and recurring decimals (Revision:Fractions,decimals and percentage)	<b>Unit8 Multiplicative Reasoning</b> Writing ratios, Share a quantity in 2 or more parts in a given ratio,Proportion	<b>Unit8 Multiplicative Reasoning</b> Direct and inverse proportion/Using the unitary method + assessment	<b>Unit10-Sequences and graphs</b> Sequences, The nth term,Pattern sequences	<b>Unit10-Sequences and graphs</b> Coordinates and line segments, Straight line graphs parallel to the x-axis	<b>Unit4(delta2)-Real life graphs</b> Draw and interpret distance-time graph,Interpret graphs that are curved	<b>Delta2 Unit8 Probability</b> Comparing probabilities, Mutually exclusive events, Estimating probability
	YR7/24	YR7/25	YR7/26	YR7/27	YR7/28	YR7/29	YR7/30	
Term 2	<b>Delta2 Unit8 Probability</b> Experimental probability,Probability diagrams + Assessment	<b>Unit7(delta2)-Constructions</b> Accurate drawings, Construct triangles using a ruler and compasses(SAS, SSS, ASA)	<b>Unit7(delta2)-Constructions</b> Construct perpendicular bisector and Angle bisector using a ruler and compasses	<b>Unit 5 Delta2 Transformations(5)</b> Describe and carry out Translations/Describe and carry out Reflections + Assessment	<b>Contd Transformations(5)</b> Describe and carry out rotations. Enlarge a shape and describe an enlargement	<b>Contd Transformations(5)</b> Enlargements a shape using negative scale factor and fractional scale factor	Revision Reinforce all the concepts taught and discuss the worksheets.	
	YR7/24	YR7/25	YR7/26	YR7/27	YR7/28	YR7/29	YR7/30	

## YEAR 8 LONG TERM PLAN with CURRICULUM STANDARDS

YEAR 8	<b>WEEK 1</b>	<b>WEEK 2</b>	<b>WEEK 3</b>	<b>WEEK 4</b>	<b>WEEK 5</b>	<b>WEEK 6</b>	<b>WEEK 7</b>	<b>WEEK 8</b>
Term 1	<b>YR 8/ 1</b>	<b>YR 8/ 2</b>	<b>YR 8 /3</b>	<b>YR 8 /4</b>	<b>YR 8/ 5</b>	<b>YR 8/ 6</b>	<b>YR 8/7</b>	<b>YR 8/8</b>
	<b>UNIT 1: Factors and powers (Delta2)</b> Prime factor decomposition of a number.To find HCFand LCM using venn diagrams.Solving word problem in HCFand LCM.	<b>UNIT 1: Factors and powers (Delta2)</b> To work out laws of indices for positive powers.To use laws of indices from multiplying and dividing.	<b>UNIT 1: Factors and powers (Delta2)</b> To use and understand powers of 10. To calculate with powers. Round to a number of significant figures.	<b>Factors and Roots(Delta 3)UNIT 2 :Working with po</b> To write the numbers using Standard form. Simplifying algebraicexpressions. involving powers and brackets+Assessment	<b>UNIT 2 :Working with</b> To use the index laws in algebraic calculations and expressions. Using Index Laws with zero and negative powers.	<b>UNIT6:Fractions,Percentages and Decimals(Delta 2)</b> Change a recurring decimal into a fraction. To calculate percentages .To work out an original quantity before percentage increase and decrease.		<b>6:Fractions,Percentages and Decimals(De</b> To calculate percentage change. To calculate the effect of repeated percentage changes+ Assessment
Term 1	<b>YR 8/ 9</b>	<b>YR 8/ 10</b>	<b>YR 8/11&amp;12</b>		<b>YR 8/13&amp;14</b>		<b>YR 8</b>	
	<b>UNIT 2 :Working with powers(Delta 2)</b> Factorise an algebraic expressions.To substitute integers into expressions. To construct and solve equations+Assessment	<b>UNIT 2:Quadratics(Delta 3)</b> To multiply pairs of brackets.Square a linear expression.Using quadratic identities+Assessment	<b>UNIT 7: Construction and Loci (Delta 2)</b> Accurate drawings.Construct triangles.Constructing perpendicular bisectors and angle bisectors. Draw Locus. Use loci to Solve problems.		<b>0</b> Surface area of prisms,Volume of prisms,Circumference and Area of a circle.	<b>Unit 3:3D Solids(Delta 2)</b> Surface area of Cylinders,Volume of Cylinders and Pythagoras Theorem.		<b>Week 15 and Week 16</b>  <b>REVISION</b>
YEAR 8	<b>WEEK 1</b>	<b>WEEK 2</b>	<b>WEEK 3</b>	<b>WEEK 4</b>	<b>WEEK 5</b>	<b>WEEK 6</b>	<b>WEEK 7</b>	<b>WEEK 8</b>
Term 2	<b>YR 8/17&amp;18</b>		<b>YR 8/19&amp;20</b>		<b>YR 8/21&amp;22</b>		<b>YR 8/23&amp;24</b>	
	<b>UNIT 5:Arcs and Sectors of circles(Delta 3)</b> Work out the length of an arc.Work out the area of a sector.Solve problem involving arc and sector.	<b>UNIT 4:Reallife</b> Draw and interpret Distance-time graphs, Interpret real life graphs.	<b>Unit 9:Scale Drawing and Measures(Delta 2)</b> Maps and scales.Bearings. Scales and ratio.Congruent and similar shapes.		<b>Unit 9:Scale Drawing and</b> To use similarity to solve problems in 2D shapes+Assessment	<b>UNIT 3: Inequalities,equations and</b> To construct and solve complex equations.Changing the subject of a formulae.	<b>Unit 10:Graphs(Delta 2)</b> Plotting linear graphs,The gradient,y=mx+c,Parallel and perpendicular lines+Assessment	
Term 2	<b>YR 8/25</b>	<b>YR 8/26</b>	<b>YR 8/27</b>	<b>YR 8/28&amp;29</b>		<b>YR 8/30</b>	<b>YR 8</b>	
	<b>UNIT 8:Probability(Delta 2)</b> Revision + Estimating probability, probability diagrams	<b>Unit 4:Collecting and Analysing Data(Delta 3)</b> To draw stem and leaf diagrams. To construct frequency polygons. To estimate the mean and range from a grouped frequency table.		<b>Unit 5: Transformations(Delta 2)</b> To describe and carry out Reflection, Translation & Rotation.To enlarge a shape ,To describe an enlargement.To enlarge a shape using negative and fractional scale factor.		<b>Unit 8: Simultaneous Equations(Delta 3)</b> Solve a pair of Simultaneous Equation	<b>Week 31 and Week 32</b>  <b>REVISION</b>	

**YEAR 9 LONG TERM PLAN with CURRICULUM STANDARDS**

YEAR 9	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1	YR 9/1 Number ( 6 )	YR 9/2 Number Contd (6)	YR 9/3 Number Contd (5) +Assessment	YR 9/4 Algebra (6)	YR 9/5 Algebra Contd (6)	YR 9/6 Algebra Contd (6)	YR 9/7 Algebra Contd (5) + Assessment(2)	YR 9/8 Fractions,ratio and percentages (6)
	Place value and estimating,HCF and LCM. Calculating with powers (indices).	Calculating with powers (indices) Zero,negative and fractional indices. To write a number in standard form.	To calculate with numbers in standard form.Understand the difference between rational and irrational numbers.Simplify a surd. Rationalise a denominator.	To solve sums involving algebraic indices.To expand brackets.To factorise algebraic expressions.	To solve equations involving brackets and numerical fractions.To substitute numbers into fomulae	.To rearrange formulae. To solve sums on linear sequences.To solve problems using non linear sequences. To work out terms in Fibonacci like sequences	To expand the product of. two brackets To use the difference of. two squares. To factorise quadratics of the. form $ax^2+bx+c$	To add subtract multiply divide fractions and mixed numbers.To compare ratios.To find quantities using ratios.
Term 1	YR 9/9 Fractions,ratio and percentages Contd (6)	YR 9/10 Fractions,ratio and percentages Contd (6)	YR 9/11 Interpreting and representing data Contd (6)	YR 9/12 Angles and Trigonometry (6)	YR 9/13 Angles and Trigonometry (6)	YR 9/14 Angles and Trigonometry Contd (6)	YR 9/15 & YR9/16 Revision	
	To convert between currencies and measures.To use direct proportion.To work out percentage increase and decrease.	To solve real - life problems involving percentages. Calculate using fractions,decimals and percentages.To convert a recurring decimal to a fraction	Estimate the mean and range from a grouped frequency table.To find the modal class and the group containing the median.To construct and use two-- way tables.	To derive and use angle properties of triangles,quadrilateral and exterior angle of triangle.To calculate the sum of the interior angles and exterior angles of a polygon to solve problems.	To solve problems involving Pythagoras theorem. Introduction of trigonometric ratios	To use trigonometric ratios to find the lengths and angles in a right angled triangle.To find angles of elevation and depression.	Reinforce all the concepts taught and discuss the revision worksheets.	
YEAR 9	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2	YR 9/17 Interpreting and representing data Contd (6)	YR 9/18 Interpreting and representing data Contd (6)	YR 9/19 Interpreting and representing data Contd (5)+ Assessment	YR 9/20 Graphs (6)	YR 9/21 Graphs Contd (6)	YR 9/22 Graphs Contd (6)	YR 9/23 Graphs Contd (6)	YR 9/24 Area and volume (6)
	To construct and use back -to-back stem and leaf diagrams.Construct and use frequency polygons and pie charts.	To plot and interpret time series graphs..To use trends to predict what might happen in the future.Moving Averages	To plot and interpret scatter graphs. To determine the linear relationship between the variables Draw a line of best fit on a scatter graph.Use the line of best fit to predict values	To find the gradient and y intercept from a linear equation.To rearrange an equation into the form $y=mx+c$ .To plot graphs with equations $ax+by+c$ .	To find the equation of a line given its gradient and one point.To draw and interpret distance-time graphs.To calculate average speed from a distance - time graph.	To understand velocity - time graphs.To find acceleration and distance from velocity - time graphs.To draw and interpret real - line linear graphs.	To find the coordinates of the midpoint of a line segment.To find the gradient and length of a line segment.To find the equations of lines parallel or perpendicular to the given line.	To find the perimeter and area of compound shapes.To calculate volumes and surface areas of prisms.Units and accuracy.
Term 2	YR 9/25 Area and volume Contd (6)	YR 9/26 Area and volume Contd (6))	YR 9/27 Transformations and Constructions (6)	YR 9/28 Transformations (6)	YR 9/29 Probability (6)	YR 9/30 Equations and Inequalities /Congruence(6)	YR 9/31 & GR 9/32 Revision	
	.To calculate the area and circumference of a circle.To calculate the area and perimeter of semis circles and quarter circles.To calculate arc lengths,angles and areas of sectors of circles.	To calculate volume and surface area of a cylinder and a sphere. To calculate volume and surface area of a pyramids and cones	3D solids.Reflection and Rotation.Enlarge shapes by fractional and negative scale factors about a centre of enlargement.	To draw scales on maps.To solve problems involving bearings.Construction of angle bisector and perpendicular bisector.To draw a locus.Use loci to solve problems.	To solve problems on combined events.To find probabilities of mutually exclusive events. Experimental Probability.Independent events.To draw and use probability tree	To solve simple simultaneous equations algebraically and graphically.To know the conditions of congruence.	Reinforce all the concepts taught and discuss the revision worksheets.	

**YEAR 10 LONG TERM PLAN with CURRICULUM STANDARDS**

YEAR 10	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1	YR 10/1 Equations and inequalities(6)	YR 10/2 Equations and Inequalities	YR 10/3 Equations and inequalities (Continue)(6)	YR 10/4 Equations and inequalities (Continue)(6)	YR 10/5 Unit 7.2. Units and Accuracy , Unit	YR 10/6 Unit 8.5 Bearings. 8.8 Loci	YR 10/7 Revision on Unit 5.4-5.7	YR 10/8 More Trigonometry(6)
	Solve quadratic equations by factorisation, use the quadratic formula and by completing the square. (9.1 - 9.3)	Recognise and draw quadratic functions. Find approximate solutions to quadratic equations graphically.(15.3-15.4)	Solve simultaneous equations algebraically and graphically Solve quadratic simultaneous. (9.4 - 9.6,15.2)	Solving linear inequalities and shading region. Solving quadratic inequalities. (9.7, 15.2)	● Convert between metric units of area. ● Calculate the maximum and minimum possible values of a measurement. ● Convert between metric units of area.	● Draw and use scales on maps and scale drawings. ● Solve problems involving bearings. ● Draw a locus. ● Use loci to solve problems	Revision on Pythagoras theorem and Trigonometry	Find the area of a triangle and a segment of a circle. Use the sine rule to solve 2D problems.
Term 1	YR 10/9 More Trigonometry (Continued) (6)	YR 10/10 Similarity and congruence(4)	YR 10/11 Similarity and congruence(4)	YR 10/12 Circle theorems (Continue) (6)	YR 10/13 Circle theorems (Continue) (6)	YR 10/14 Revision of Year 9 topics(6)	YR 10/15 Revision(12)	
	Use the cosine rule to solve 2D problems. Solve bearings problems using trigonometry.	To show that two triangles are congruent.To know the conditions of congruence.To prove shapes are congruent.To solve problems involving congruence(12.1-12.2)	To use the ratio of corresponding sides to work out scale factors.To find missing lengths on similar shapes (12.3-12.4 till Q9)	Understand about tangents at a point and from a point. Prove and use facts about angles subtended at the centre and the circumference, angle in a semicircle and angles subtended at the circumference of a circle.	Understand, prove and use facts about cyclic quadrilaterals and alternate segment theorem.Solve angle problems using circle theorems. Give reasons for angle sizes using mathematical language. Find the equation of the tangent to a	Revision topics from Year 9 [Numbers, Algebra,interpreting and representing data,fractions,ratio and percentages Angles and polygons,Transformations and constructions]	Reinforce all the concepts taught and discuss the worksheets for first summative exam	
YEAR 10	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2	YR 10/16 Vectors and geometric proof (6)	YR 10/17 Vectors and geometric proof (6)	YR 10/18 Vectors and geometric proof (6)	YR 10/19 Further statistics (6)	YR 10/20 Further statistics (6)	YR 10/21 Probability(6))	YR 10/22 Probability(6)	YR 10/23 Probability(6) (contd)
	Understand and use vector notation. ● Calculate using vectors and represent the solutions graphically. ● Calculate the resultant of two vectors.	● Solve problems using vectors. ● Use the resultant of two vectors to solve vector problemsExpress points as position vectors	● Prove lines are parallel. ● Prove points are collinear● Solve geometric problems in two dimensions using vector methods. ● Apply vector methods for simple geometric proofs	Understand simple random sample and stratified sample. Draw and interpret cumulative frequency tables.	Work out the median, quartiles and interquartile range from a cumulative frequency diagram. Draw and interpret box plots. (14.1 - 14.3	● Use the product rule for finding the number of outcomes for two or more events. ● Identify mutually exclusive outcomes and events. ● Find the probabilities of mutually exclusive outcomes and events. ● Find the probability of an event not	● Work out the expected results for experimental and theoretical probabilities. ● Compare real results with theoretical expected values to decide if a game is fair Draw and use frequency trees. Draw and use probability tree diagrams	● Draw and use tree diagrams without replacement. ● Use two-way tables to calculate conditional probability Venn diagrams to calculate conditional probability. Use set notation
Term 2	YR 10/24 Area and volume(6)	YR 10/25 Algebra (6)	YR 10/26 Graphs(6)	YR 10/27 Similarity and congruence(6)	YR 10/28 Multiplicative reasoning(6)	YR10/29 Multiplicative reasoning(6)	YR 10/30 Revision(12)	
	Solve problems involving volumes and surface areas.	Solve problems using geometric sequences. Work out terms in Fibonacci-like sequences.	Draw and interpret distance-time graphs. Average speed from a distance-time graph. Velocity-time graphs		Find an amount after repeated percentage changes: growth and decay	Solve problems involving compound	Reinforce all the concepts taught and discuss the worksheets including revision topics of year 9 { Unit 1- Unit 8} for final exam	

Ter	Calculate volume and surface area of pyramids and cones.	Find the nth term of a quadratic sequence (2.6)	velocity-time graphs. Acceleration and distance from velocity-time graphs.	Use the link between linear scale factor and area scale factor to solve problems. ● Use the link between scale factors for length, area and volume to solve problems	percentage changes, growth and decay, rates. Convert metric speed measures. Compound measures, ratio, direct and indirect proportion.	Solve problems involving compound measures. Use relationships involving ratio. Use direct and indirect proportion		
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**YEAR 11 LONG TERM PLAN with CURRICULUM STANDARDS**

YEAR 11	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	
Term 1	YR11/1 Unit 13 More Trigonometry(7)	YR11/2 More Trigonometry(contd) (3) Solving problems in 3D	YR11/3 More Trigonometry(contd)(5) Graphs of sine, cosine and tangent functions. Assessment - 1 Unit 13 and Revision topics Unit 5	YR11/4 Unit 19 Proportion and Graphs(6) Translating, Reflecting and Stretching graphs of functions	YR11/5 More Trigonometry(6) Reflecting, translating and stretching Trigonometric curves, Solve equations. Assessment - 2 Transformation	YR11/6 Unit 6 Graphs(5) D/T, V/T and More real life graphs	YR11/7 Proportion and Graphs(8) Calculate the gradient of a tangent at a point, Estimate the area under a non linear graph. Assessment 3		
	YR11/8 Unit 15 Equations and graphs(5) To find an accurate root of a quadratic and cubic equation by using iterative process. Assessment - revision unit 9 and unit 15	YR11/9 Unit 14 Further Statistics(5) Sampling, cumulative frequency, box plots	YR11/10 Further Statistics(5) Drawing and interpreting Histograms, comparing and describing population Assessment revision units - 1,2,4,	YR11/11 Unit 17 More Algebra(5) Algebraic fractions, surds, solving algebraic fraction equations, functions	YR11/12 Unit 11 Multiplicative Reasoning(5) Growth, decay, compound measures, ratio and proportion	YR11/13 Unit 7 Area and Volume (5) Prisms, circles, sectors of circles, cylinders and spheres, pyramids and cones	YR11/14 Revision Reinforcing all the concepts done and discussion of past papers.		
	YR11/15 Unit 16 Circle Theorems(5) To prove and apply all the circle theorems	YR11/16 Unit 18 Vectors and Geometric Proof(5) Vector Arithmetic, Parallel and collinear vectors, Solving geometric problems Assessment 1	YR11/18 Unit 10 Probability(5) Mutually exclusive, Independent events, Experimental probability, conditional probability, venn diagrams and set notation	YR11/19 Unit 12 Similarity and Congruence(5) Similar, Congruent triangles,	YR11/20 Similarity and Congruence(5) similarity in 3D shapes. Assessment 2	YR11/21 Unit 3 Interpreting and representing data (5) Time series, scatter diagrams, line of best fit, averages and range	YR11/21 Unit 8 Transformation and Reflection, Translation, enlargement and Rotation, Bearings and scale drawings	YR11/22 Transformation and Constructions Constructions and loci	
Term 2	YR11/ Revision Reinforcing all the concepts taught. Discussion of sample papers and mock papers.								

**YEAR 12 LONG TERM PLAN with CURRICULUM STANDARDS**

YEAR 12	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	
Term 1	Y12 / 1 (3) Algebraic Expressions	Y12 / 2 (3) Quadratics	Y12 / 2 (2) & 3 (1) Quadratics & Equations and inequalities	Y12 / 3 (3) Equations and inequalities	Y12 / 4 (3) Graphs and Transformations	Y12 / 4 (2) & 5 (1) Graphs and Transformations & Straight	Y12 / 5 (2) & 6 (1) Straight Line Graphs & Circles	Y12 / 6 (3) Circles	
	Expanding Brackets and Factorising, Index Laws, Negative and Fractional Indices, Surds and Rationalising denominators	Solving Quadratic Equations by (i) Factorising (ii) Quadratic Formula, Completing the square, Functions and Sketching Quadratic graphs	Finding the nature of roots using Discriminant, Modelling with quadratics, Solving Linear simultaneous equations, Solving Quadratic Simultaneous equations	Representing simultaneous equations on graphs, Solving Linear Inequalities, Solving Quadratic inequalities, Inequalities on graphs, Regions	Sketching cubic graphs, Sketching Reciprocal Graphs, Sketching Quartic Graphs, Sketching curves to find point of intersection	Translation of graphs, Stretching and reflecting Graphs, Transforming functions & Gradient and Equation of the line	Parallel and Perpendicular lines, Length and area, Modelling with straight lines & Midpoint and Perpendicular Bisectors, Equation of a circle	Intersection of straight lines and circles, Use tangent and Chord Properties, Circles and triangles	
	Y12S1 / 1 (3) Data collection	Y12S1 / 2 (3) Measures of location and spread	Y12S1 / 2 (3) Measures of location and spread	Y12S1 / 2 (3) Measures of location and spread	Y12S1 / 3 (3) Representation of data	Y12S1 / 3 (3) Representation of data	Y12S1 / 4 (3) Correlation	Y12S1 / 4 (3) Correlation	
Term 1	Population and samples, Sampling, Non random sampling, Types of data, Large data set.	Measure of central tendency: Mean Median Mode and Quartiles.	Percentile, Measures of spread, Variance and standard deviation.	Variance and standard deviation and Coding.	Outliers, Box plots and Cumulative frequency.	Histogram with unequal intervals and Comparing data.	Scatter Diagram and Correlation, Linear regression	Interpretation of regression line and gradient.	
Term 1	Y12 / 7 (3) Algebraic Methods	Y12 / 7 (1) & 8 (2) Algebraic Methods & Binomial	Y12 / 8 (2) & 9 (1) Binomial Expansion & Trigonometric Ratios	Y12 / 9 (3) Trigonometric Ratios	Y12 / 10 (3) Trigonometric Identities and	Y12 / 10 (3) Trigonometric Identities and Equations	Revision	Revision	
	Algebraic fractions, Dividing polynomials, Factor theorem, Mathematical Proof	Methods of proof & Pascal's triangle, Factorial Notation and Binomial Expansion	Solving binomial problems, Binomial Estimation & Cosine Rule, Sine Rule	Area of triangle, Solving triangle problems, Graphs of Sine, Cosine, Tangent, Transforming trigonometric graphs	Angles in all four quadrants, Exact value of trigonometrical ratios, Trigonometric identities	Simple trigonometric equations, Harder trigonometric equations, Equations and Identities			
	Y12S1 / 5 (3)	Y12S1 / 5 (3)	Y12S1 / 5 (3)	Y12S1 / 6 (3)	Y12S1 / 6 (3)	Y12S1 / 6 (3)			

Term 1	Probability	Probability	Probability	Statistical Distributions	Statistical Distributions	Statistical Distributions	Revision	Revision
	Calculating Probabilities and Venn Diagrams.	Mutually exclusive and Independent events.	Tree diagrams and Conditional Probability	Probability Distributions	Binomial Distribution	Cumulative Probabilities		
YEAR 12	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2	Y12 / 11 (3)	Y12 / 11 (2) & 12 (1)	Y12 / 12 (3)	Y12 / 12 (3)	Y12 / 12 (3)	Y12 / 13 (3)	Y12 / 13 (3)	Y12 / 13 (2) & Y12 / 14 (1)
	Vectors	Vectors & Differentiation	Differentiation	Differentiation	Differentiation	Integration	Integration	Integration
	Vector notation, Representing as column vectors, Magnitude and direction and Position vectors.	Solving geometric problems, modelling with vectors & Gradient of curve, Finding the derivative, Differentiating $x^n$	Differentiating quadratics, functions with two or more terms, Tangents and normals	Increasing and decreasing functions, Second order derivatives, Stationary points, Maximum and minimum points	Sketching gradient functions, Modelling with differentiation.	Integrating $x^n$ , Indefinite integrals, Finding functions using integration	Definite integrals, Areas under the curve, Areas under the x axis	Area between curve and line & Exponential Functions
Term 2	Y12S1 / 7 (3)	Y12S1 / 7 (3)	Y12S1 / 7 (3)	Y12S2 / 1 (3)	Y12S2 / 1 (3)	Y12S2 / 2 (3)	Y12S2 / 2 (3)	Y12S2 / 2 (3)
	Hypothesis Testing	Hypothesis Testing	Hypothesis Testing	Regression, Correlation and Hypothesis	Regression, Correlation and	Conditional Probability	Conditional Probability	Conditional Probability
	Test Statistic, Null and Alternative Hypothesis and Finding Critical Values.	One tailed test, Comparing significance level and finding critical region.	Two tailed test, Comparing significance level and finding critical region.	Exponential Models and Measuring correlation.	Hypothesis Testing for zero correlation.	Set Notation, Conditional Probability.	Conditional Probabilities in Ven diagrams.	Probability Formulae
YEAR 12	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2	Y12 / 14 (3)	Y12 / 14 (3)	Y12 / 14 (3)	Y13 / 1 (3)	Y13 / 1 (2) & Y13 / 5 (1)	Y13 / 5 (3)		
	Exponentials and Logarithms	Exponentials and Logarithms	Exponentials and Logarithms	Algebraic Methods	Algebraic Methods	Radian Measure	Revision	Revision
	Graph of $y = e^x$ , Exponential modelling, Logarithms,	Laws of logarithms, Solving equations using logarithms.	Working with natural logarithms, Logarithms and non linear data.	Proof by contradiction, algebraic fractions	Partial Fractions, Repeated Factors and Algebraic division & Radian Measure, Arc length.	Area of sector and segment, Solving trigonometric equations and Small Angle Approximation.		
Term 2	Y12S2 / 2 (3)	Y12S2 / 3 (3)	Y12S2 / 3 (3)	Y12S2 / 3 (3)	Y12S2 / 3 (3)	Y12S2 / 3 (3)		
	Conditional Probability	Normal Distribution	Normal Distribution	Normal Distribution	Normal Distribution	Normal Distribution	Revision	Revision
	Conditional Probabilities in Tree Diagrams.	Understanding normal distribution and its characteristics and Finding probabilities for normal distributions.	Inverse normal distribution function and Standard Normal Distribution.	Finding $\mu$ and $\sigma$	Approximating a Binomial Distribution.	Hypothesis Testing with the Normal Distribution.		
<b>YEAR 13 LONG TERM PLAN with CURRICULUM STANDARDS</b>								
YEAR 13	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1	Y13 / 1 (2) & Y13 / 2 (1)	Y13 / 2 (3)	Y13 / 2 (3)	Y13 / 2 (1) & Y13 / 3(2)	Y13 / 3(3)	Y13 / 3 (3)	Y13 / 4 (3)	Y13 / 4 (1) & Y13 / 6 (2)
	Algebraic Methods & Functions and	Functions and graphs	Functions and graphs	Functions and graphs & Sequences and series	Sequences and series	Sequences and series	Binomial Expansion	Binomial Expansion & Trigonometric
	Proof by contradiction & The modulus function	Functions and mappings, Sketching modulus functions	Composite functions, inverse functions and Combining transformations.	Solving modulus problems & Arithmetic Sequence and series	Geometric sequence and series, Sum to infinity.	Sigma Notation, recurrence relation and Modelling with series	Expanding $(1+x)^n$ and $(a+bx)^n$ .	Using Partial Fractions to simplify the Binomial Expansion & Sketching and using Graphs of Sec x, Cosec x and Cot x in Trigonometric identities.
Term 1	Y13M1 / 8 (3)	Y13M1 / 9 (3)	Y13M1 / 9 (3)	Y13M1 / 10 (3)	Y13M / 10 (3)	Y13M1 / 10 (3)	Y13M1 / 11 (3)	Y13M1 / 11 (3)
	Modelling in Mechanics	Constant Acceleration	Constant Acceleration	Forces and Motion	Forces and Motion	Forces and Motion	Variable Acceleration	Variable Acceleration
	Constructing a model and modelling assumptions, Quantities and units and working with vectors.	Displacement-time graph, Velocity-time graph.	Constant Acceleration Formula 1 and 2, Vertical motion under gravity.	Force diagrams, Forces and vectors, Force and Acceleration.	Motion in 2 dimensions, Connected Particles.	Connected Particles and Pulleys.	Functions of time using differentiation, Maxima and Minima problems.	Using Integration and constant acceleration formula.
YEAR 13	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1	Y13 / 6 (1) & Y13 / 7 (2)	Y13 / 7 (3)	Y13 / 7 (2) & Y13 / 8 (1)	Y13 / 8 (3)	Y13 / 9 (3)	Y13 / 9 (3)		
	Trigonometric Functions &	Trigonometry and modelling	Trigonometry and modelling & Parametric	Parametric Equations	Differentiation	Differentiation	Revision	Revision
	Inverse trigonometric functions & Using Angle Addition Formula and Double angle formula.	Solving trigonometric equations. Simplifying $a \cos x \pm b \sin x$ , Proving trigonometric identities	Modelling with trigonometric functions & Parametric Equations, Using trigonometric identities.	Curve Sketching, Points of intersection and modelling with parametric equations.	Differentiating exponentials and logarithms and trigonometric functions. Chain rule, Product rule, Quotient rule	Parametric Differentiation, Implicit Differentiation using second derivatives, Rates of change.		



