

Mathematics Curriculum: Long Term Planning

At St Joseph's we are following our own individualised curriculum supplemented with a number of schemes including; White Rose; NRich, NCETM, Hamilton & Target Maths. Below is a topic grid for when each area of learning will be studied. Refer also to individual year group objectives and the whole school progression map.

Nursery	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
General Themes	All About Me	Stories & Celebrations	Animal Fun	Growing Up	Adventures Under the Sea	A Taste of t
	Developing a strong grounding a deep understanding of the n understanding - such as using i mastery of mathematics is buil including shape, space and me talk to adults and peers about	y in number is essential so that a umbers to 6 , the relationships be manipulatives, including small po t. In addition, it is important tha asures. It is important that childr what they notice and not be afre	ll children develop the necessary tween them and the patterns wit ebbles and tens frames for organ t the curriculum includes rich op ren develop positive attitudes an aid to make mistakes.	building blocks to excel mathen hin those numbers. By providing ising counting - children will dev portunities for children to develo d interests in mathematics, look	natically. Children should be able frequent and varied opportuniti relop a secure base of knowledge op their spatial reasoning skills a for patterns and relationships , sp	e to count con es to build an e and vocabul cross all area pot connectio
	I can explore and name colours. I can match items that look similar such as buttons, shoes, shapes and numicon. I can sort objects using one simple criteria such as shapes, size and colours. I can discuss similarities and differences with items. I can sort natural materials and toys in the environment. I can use informal language such as 'stripy' 'pointy' when sorting objects	I can recite some number names to 5 through rhymes and songs. I can have conversations about numbers. I can subitise, recognise and count number 1 and 2. I can share play toys with a friend when asked I can create a simple ABABAB pattern I can fix a mistake in a pattern. I can make movement patterns.	I can recite some number names in sequence I can subitise, recognise and count numbers 3,4 and 5. I can explore the composition of numbers 3,4 and 5. I can show interest in and join in with number rhymes I can bring one or two objects to and adult when asked I can extend a simple ABABAB pattern I can experiment with my own symbols, marks and numerals	I can subitise, recognise and count numbers to 6. I am beginning to count small quantities accurately. I can identify the shape of everyday objects. I can describe and order three items by height and length. I know language related to height, length and weight. I can describe capacity using language of full, half full and empty.	I can recite some number names in sequence. I can show interest in and join in with number rhymes I can take one object away when asked. I can add one more when asked. I know that the last number reached when counting objects is how many in total I have fast recognition of three objects I can compare quantities using language of more and fewer. I can name some 2D shapes. I can use mathematical language to describe shapes	I can say or for each iter I can link nu amounts. I can show j up to five. I can descrif events in or I can name day. I can identij the environ I can repres using marks



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ne number name em in order to five umerals and

finger numbers

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ify numerals in ment. sent numbers



Reception	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Sumer 2
Through enhanced and conti Count objects, actions and so relationship between consect spatial reasoning skills. Com length, weight and capacity. Children will experience mat	nuous provision children in R ounds. Subitise. Link the numb utive numbers. Explore the cor pose and decompose shapes s hematics in all areas of provis	eception will: per symbol (numeral) with its nposition of numbers to 10. An so that children recognise a sh sion both inside and outside, t	cardinal number value. Count utomatically recall number bo ape can have other shapes w hrough our daily routines and	t beyond ten. Compare numbe onds for numbers 0–5 and som within it, just as numbers can. (d in response to their interests	rs. Understand the 'one more te to 10. Select, rotate and mar Continue, copy and create repo and needs.	than/one less than' nipulate shapes to develop eating patterns. Compare
(Enhanced Provision – Daily whole class input focus)	Wk 1 Getting to know the setting and Baseline	Wk 8 Composition of 1,2,3	Wk 1 Introducing 0 Composition of 4 & 5	Wk 7 Combining 2 amounts	Wk 1 Counting and building numbers beyond 10	Wk 7 Doubling Sharing & grouping
Number	Wk 2 Getting to know the setting and Baseline	Wk 9 Circles & triangles	Wk 2 Comparing numbers to 5	Wk 8 Length & height Time	Wk 2 Counting patterns beyond 10	Wk 8 Even & odd
Measure, shape & spatial thinking	Wk 3 Match & sort	Wk 10 Positional language	Wk 3 Comparing mass	Wk 9 Counting to and composition of 9 & 10	Wk 3 Spatial reasoning Match, Rotate, Manipulate	Wk 9 Consolidation of number
	Wk 4 Compare amounts	Wk 11 Representing number to 5	Wk 4 Comparing capacity	Wk 10 Comparing numbers to 10 Bonds to 10	Wk 4 Adding more	Wk 10 Consolidation of shape and pattern
	Wk 5 Compare size, mass & capacity	Wk 12 One more & less	Wk 5 Making pairs	Wk 11 3D Shape Pattern Spatial Awareness	Wk 5 Taking away	Wk 11 Consolidation of spatial reasoning Visualise and build Mapping
	Wk 6 Exploring pattern	Wk 13 Shapes with 4 sides Time	Wk 6 Counting to 6, 7 & 8 Composition of 6, 7 & 8	Wk 12 Consolidation	Wk 6 Spatial reasoning Compose and Decompose	Wk 12 Consolidation
	Wk 7 Representing 1,2,3 Comparing 1,2,3	Wk 14 Consolidation				
Key facts	Number bonds for all number to 5 Doubles fact to 5 Count in 1s		Number bonds for all numbers 6-10 Doubles facts to 10		Number bonds for all numbers 1-10 Doubles facts to 10 Count in 10s	
Recording	Form numbers correctly		Draw pictures Draw part-part whole mode	els	Use number lines Begin to write calculations	

St Joseph's Catholic Primary School & Nursery



Year 1	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Sumer 2
Number: Place Value Number: Addition &	Wk 1 - Place value within 10	Wk 8 – Addition & subtraction – number bonds	Wk 1 – Place Value (within 50)	Wk 7 - Measurement - Length & height	Wk 1 – Number – Place Value (Within 100)	Wk 7 - Number – Fractions
Subtraction Number: Multiplication & Division Number: fractions	Wk 2 - Place value within 10	Wk 9 – Addition & subtraction – subtraction	Wk 2 - Place Value (within 50)	Wk 8 - Measurement – Mass & volume	Wk 2 - Number – Place Value (Within 100)	Wk 8 - Measurement - Money
Number: Decimals & Percentages Geometry Measurement Statistics Ratio & Proportion	Wk 3 - Place value – one more/less	Wk 10 – subtraction	Wk 3 - Addition and subtraction	Wk 9 – Measurement – Mass & volume	Wk 3 - Multiplication and division	Wk 9 - Measurement – Time
	Wk 4 - Place value – greater or less than/comparing	Wk 11 – Place value within 20	Wk 4 - Addition and subtraction	Week 10 – Geometry – 2D & 3D shapes	Wk 4 - Multiplication and division	Wk 10 - Measurement – Time
Algebra	Wk 5 - Place value – greater than/comparing	Wk 12 – Place value within 20	Wk 5 – Addition and subtraction	Wk 11 - Geometry – position and direction	Wk 5 - Multiplication and division	Wk 11 - Assessment/interventions
	Wk 6 – Addition & subtraction – part- whole models	Wk 13 – Assessment/targeted interventions.	Wk 6 – Measurement - Length & height	Wk 12 – Assessment / targeted interventions	Wk 6 – Number – Fractions	Wk 12 - Consolidation
	Wk 7 Consolidation	Wk 14 Consolidation				
Key facts	Number bonds for all numbers 1-15 Count in 1s, 10s, 5s, 2s		Number bonds for all Number bonds for mi	numbers 1-25 ultiples of ten to 50.	Number bonds for mi	ultiples of ten to 100.
Recording	Bar models Number lines – jumps	of one	Bar models Number lines – jumps	s of whole numbers	Bar models Number lines – jumps of tens and ones	





Year 2	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Sumer 2
Number: Place Value Number: Addition &	Wk 1 - Number: Place value	Wk 8 – Addition and subtraction	Wk 1 Measurement: Money	Wk 7 – Measurement: Length and height	Wk 1 - Number: Fractions	Wk 7 - Geometry: Position and directions
Subtraction Number: Multiplication & Division Number: fractions	Wk 2 - Number: Place value	Wk 9 - Addition and subtraction	Wk 2 - Measurement: Money	Wk 8 - Measurement: Length and height	Wk 2 - Number: Fractions	Wk 8 - Geometry: Position and directions
Number: Decimals & Percentages Geometry	Wk 3 - Number: Place value	Wk 10 - Addition and subtraction	Wk 3 - Number: Multiplication and division	Wk 9 – Measurement: Mass, capacity and temperature	Wk 3 - Number: Fractions	Wk 9 – Statistics
Measurement Statistics Ratio & Proportion	Wk 4 - Number: Place value	Wk 11 - Measurement – Shape	Wk 4 - Number: Multiplication and division	Measurement: Mass, capacity and temperature	Wk 4 - Measurement: Time	Wk 10 - Statistics
Algebra	Wk 5 - Number: Addition and subtraction	Wk 12 - Measurement - money	Wk 5 - Number: Multiplication and division	Wk 11 - Mass, capacity and temperature	Wk 5 - Measurement: Time	Wk 11 - Consolidation
	Wk 6 Number: Addition and subtraction	Wk 13 – Assessment/interventions	Wk 6 - Number: Multiplication and division	Wk 12 – Assessment/interventions	Wk 6 - Measurement: Time	Wk 12 – Assessment/interventions
	Wk 7 Consolidation	Wk 14 Consolidation				
Key facts	Recognise the inverse relationship between addition & subtraction. Recognise properties of 2D & 3D shapes.		Ten times table Five times table Two times table		Ten times table Five times table Two times table	
Recording	Bar models Number lines Partitioning		Bar models Number lines Partitioning		Bar models Number lines Partitioning	





Year 3	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Sumer 2
Number: Place Value	Wk 1 - Place Value	Wk 8 - Addition and Subtraction	Wk 1 - Multiplication and Division	Wk 7 – Fractions	Wk 1 - Measurement: Mass and capacity	Wk 7 - Measurement: Time
Number: Addition & Subtraction Number: Multiplication &	Wk 2 - Place Value	Wk 9 - Multiplication and Division	Wk 2 - Multiplication and Division	Wk 8 - Fractions	Wk 2 - Measurement: Mass and capacity	Wk 8 - Geometry: Properties of Shape
Division Number: fractions	Wk 3 - Place Value	Wk 10 - Multiplication and Division	Wk 3 - Multiplication and Division	Wk 9 – Fractions	Wk 3 - Measurement: Money	Wk 9 - Geometry: Properties of Shape
Number: Decimals & Percentages Geometry	Wk 4 - Addition and Subtraction	Wk 11 - Multiplication and Division	Wk 4 - Multiplication and Division	Wk 10 - Fractions	Wk 4 - Measurement: Money	Wk 10 - Statistics
Measurement Statistics Ratio & Proportion Algebra	Wk 5 - Addition and Subtraction	Wk 12 - Multiplication and Division	Wk 5 – Measurement: Length and perimeter	Wk 11 - Fractions	Wk 5 – Measurement: Time	Wk 11 - Statistics
	Wk 6 - Addition and Subtraction	Wk 13 – Assessment/interventions	Wk 6 – Measurement: Length and perimeter	Wk 12 - Measurement: Mass and capacity	Wk 6 – Measurement: Time	Wk 12 – Assessment/intervention
	Wk 7 Consolidation	Wk 14 Consolidation				
Key facts	Four times table Eight times table Three times table		Four times table Eight times table Three times table		Four times table Eight times table Three times table	
Recording	Three times table Bar models Number lines Expanded column method addition & subtraction Decomposition addition Multiplication grid method		Bar models Number lines Expanded column method addition & subtraction Decomposition addition & subtraction Multiplication grid method Partitioning to divide		Bar models Number lines Expanded layout addition & subtraction Decomposition addition & subtraction Multiplication grid method Partitioning to divide	





Year 4	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	
Number: Place Value Number: Addition &	Wk 1 - Place Value	Wk 8 - Addition and Subtraction Wk 9 – Measurement: Area	Wk 1 - Number: Multiplication and division Wk 2 - Multiplication and	Wk 7 – Fractions	Wk 1 - Measurement: Money	W an
Subtraction Number: Multiplication & Division	Wk 3 - Place Value	Wk 10 – Number:	Division Wk 3 - Multiplication and	Wk 9 – Fractions	Wk 3 - Measurement: Time	an W
Number: jractions Number: Decimals & Percentages	Wk 4 - Place Value	Wultiplication and division Wk 11 - Number: Multiplication and division	Wk 4 - Measurement: Length and perimeter	Wk 10 – Number: Decimals	Wk 4 - Measurement: Time	W
Measurement	Wk 5 - Addition and Subtraction	Wk 12 - Number: Multiplication and division	Wk 5 - Measurement: Length and perimeter	Wk 11 – Number: Decimals	Wk 5 - Geometry: Properties of Shape	w
Statistics Ratio & Proportion	Wk 6 - Addition and Subtraction	Wk 13 – Assessment/intervention	Wk 6 - Fractions	Wk 12 - Number: Decimals Assessment	Wk 6 – Geometry: Properties of Shape	W As
Algebra	Wk 7 Consolidation	Wk 14 – Consolidation				
Key facts	Six times table Nine times table Seven times table		Six times table Nine times table Seven times table		Six times table Nine times table Seven times table	
Recording	Bar model Column method addition & subtraction Grid method multiplication Expanded layout multiplication Compact multiplication Chunking		Bar model Column method addition & su Grid method multiplication Expanded layout multiplicatio Compact multiplication Chunking	n	Bar model Column method addition & su Expanded layout multiplication Compact multiplication Chunking for division Bus stop division.	btra n



Sumer 2

/k 7 - Geometry: Position nd direction

/k 8 - Geometry: Position nd direction

Vk 9 - Geometry: Position nd direction (consolidation)

/k 10 – Statistics

/k 11 - Statistics

Vk 12 –

ssessment/interventions

action



Year 5	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	
Number: Place Value	Wk 1 - Number- Place Value	Wk 8 - Number- Multiplication and division	Wk 1 - Number- Multiplication and division	Wk 7 - Number – Decimals and percentages	Wk 1 - Geometry – Properties of shape	W Co M
Number: Addition & Subtraction Number: Multiplication &	Wk 2 - Number- Place Value	Wk 9 – Number- Multiplication and division	Wk 2 - Multiplication and division	Wk 8 - Number – Decimals and percentages	Wk 2 - Geometry – Position and direction	W Co M
Division Number: fractions Number: Decimals & Percentages Geometry	Wk 3 - Number- Place Value	Wk 10 – Number – Fractions	Wk 3 - Multiplication and division	Wk 9 – Measurement – Perimeter and area	Wk 3 - Geometry – Position and direction	W Vc
	Wk 4 - Number- Addition and Subtraction	Wk 11 - Number – Fractions	Wk 4 - Number – Fractions	Wk 10 – Measurement – Perimeter and area	Wk 4 – Number: Decimals	W nu
Measurement Statistics	Wk 5 - Number- Addition and Subtraction	Wk 12 - Number – Fractions	Wk 5 - Number – Fractions	Wk 11 - Geometry – Properties of shape	Wk 5 – Number: Decimals	W
Algebra	Wk 6 - Number- Multiplication and division	Wk 13 – Assessment/intervention	Wk 6 - Number – Decimals & Percentages	Wk 12 – Geometry – Properties of shape	Wk 6 – Number: Decimals	W Sta
	Wk 7 Consolidation	Wk 14 – Number - Fractions				
Key facts	Recall all multiplication facts Prime numbers to 19		Recall all multiplication facts Prime numbers to 19		Recall all multiplication facts Prime numbers to 19	
Recording	Bar models Column addition & subtraction Compact multiplication Bus stop division	n	Bar models Column addition & subtraction Compact multiplication Bus stop division	n	Bar models Column addition & subtraction Compact multiplication Bus stop division	٦



Sumer 2

'k 7 – Measurement: onverting Units of easurement.

k 8 – Measurement: onverting Units of easurement

'k 9 – Measurement: olume

/k 10 – Number: Negative umbers

k 11 – Statistics

/k 12 – atistics/assessment



Year 6	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	
Number: Place Value Number: Addition &	Wk 1 - Number: Place Value	Wk 8 - Number: Addition, subtraction, multiplication & division	Wk 1 - Number: Ratio	Wk 7 - Measurement: Area, perimeter and volume	Wk 1 – Algebra	W Pro
Subtraction Number: Multiplication & Division	Wk 2 - Number: Place Value	Wk 9 - Number: Addition, subtraction, multiplication & division	Wk 2 - Number: Ratio	Wk 8 - Measurement: Area, perimeter and volume	Wk 2 – Algebra	
Number: fractions	Wk 3 – School Residential	Wk 10 - Number: Fractions	Wk 3 - Number: Decimals	Wk 9 - Geometry: Shape	Wk 3 - Consolidation	
Number: Decimals & Percentages Geometry	Wk 4 - Number: Addition, subtraction, multiplication & division	Wk 11 -Number: Fractions	Wk 4 - Number: Decimals	Wk 10 - Geometry: Position & Direction	Wk 4 - SATS WEEK	
Measurement Statistics	Wk 5 Number: Addition, subtraction, multiplication & division	Wk 12 - Number: Fractions	Wk 5 – Number: Fractions, decimals and percentages	WK 11 - Statistics	Wk 5-7 - Consolidation Project 1 White Rose Bakery	
Ratio & Proportion Algebra	Wk 5 Number: Addition, subtraction, multiplication & division	Wk 13 - Number: Fractions	Wk 6 – Number: Fractions, decimals and percentages	WK 12 – Statistics/assessment		W
	Wk 7 Consolidation	Wk 14 – Measurement: Converting units and assessment				
Key facts	Recall all multiplication facts Prime numbers to 19		Recall all multiplication facts Prime numbers to 19		Recall all multiplication facts Prime numbers to 19	
Recording	Bar models Column addition & subtraction Compact multiplication Bus stop division	1	Bar models Column addition & subtraction Compact multiplication Bus stop division	1	Bar models Column addition & subtraction Compact multiplication Bus stop division	n



Sumer 2

/k 8-11 – Consolidation roject 2 White Rose Tours

/k 12 – Consolidation

