

# Curriculum Intent & Progression Document

## Mathematics

St. Mary's Catholic Voluntary Academy, Grantham

2023-24



Subject Leader: Miss Steeples

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St. Mary's Catholic Voluntary Academy, Grantham  
2023-24

### **Mission Statement**

Christ is at the centre of St. Mary's as we strive to nurture and care for all our community members by encouraging them to **Believe, Succeed** and **Soar** within God's love, to achieve the very best that they can, in all areas.

### **Our Vision**

We are disciples who put our faith into action in all that we do.  
We are role models who encourage others to shine and be the best version of themselves that they can be.  
We are investigators who ask questions about the past, the present and the future.  
We are artists who show our creativity and talents with flair and imagination.  
We are storytellers who have a passion for reading and are able to communicate in many ways.  
We are problem solvers who tackle tasks with an open mind and a positive approach.  
We are team players who work together to achieve our goals.  
We are explorers who learn new skills, embrace other cultures and value our locality and the wider world.  
We **Believe. We Succeed. We Soar.**

### **Our Gospel Virtues**

**To achieve our full Christian potential, we all need to live out our Gospel Virtues: -**

#### **Love**

A Christ-like love respects the talent of each person in our school.

#### **Faith**

Faith helps us to do God's will in this world.

#### **Hope**

Hope helps us to see a new life beyond our present one.

#### **Peace**

We know that if we love one another, peace will be all around us.

#### **Mercy**

We believe that mercy will be shown by the way we forgive others.

#### **Community**

We believe our community here unites us all as followers of Jesus.

# Curriculum Intent: MATHEMATICS (2023-24)

EYFS MATHEMATICS					
ADVENT 1 Children will...	ADVENT 2 Children will...	LENT 1 Children will...	LENT 2 Children will...	PENTECOST 1 Children will...	PENTECOST 2 Children will...
<p><b>Getting to Know You</b> Opportunities for settling in, introducing the areas of provision and getting to know the children. Key times of the day and class routines. Exploring continuous provision inside an out. Where do things belong? Positional language. [Baselines]</p> <p><b>Match, Sort and Compare</b> Step 1: know how to match objects. Step 2: know how to match pictures and objects. Step 3: know how to identify a set. Step 4: know how to sort objects to a type. Step 5: know how to explore sorting techniques.</p>	<p><b>It's me 1, 2, 3</b> Step 1: know how to find 1, 2 and 3. Step 2: know how to subitise 1, 2 and 3. Step 3: know how to represent 1, 2 and 3. Step 4: know how to find 1 more. Step 5: know how to find 1 less. Step 6: know the composition of 1, 2 and 3.</p> <p><b>Circles and Triangles</b> Step 1: know how to identify and name circles and triangles. Step 2: know how to compare circles and triangles. Step 3: know how to find shapes in the environment. Step 4: know how to describe position.</p> <p><b>1, 2, 3, 4, 5</b></p>	<p><b>Alive in 5</b> Step 1: know what zero is. Step 2: know how to find 0 to 5. Step 3: know how to subitise 0 to 5. Step 4: know how to represent 0 to 5. Step 5: know how to find 1 more. Step 6: know how to find 1 less. Step 7: know about composition. Step 8: know about conceptual subitising to 5.</p> <p><b>Mass and Capacity</b> Step 1: know how to compare mass. Step 2: know how to find a balance. Step 3: know how to explore capacity. Step 4: know how to compare capacity.</p>	<p><b>Length, Height and Time</b> Step 4: know how to compare height. Step 5: know how to talk about time. Step 6: know how to order and sequence time.</p> <p><b>Building 9 and 10</b> Step 1: know how to find 9 and 10. Step 2: know how to compare numbers to 10. Step 3: know how to represent 9 and 10. Step 4: know about conceptual subitising to 10. Step 5: know how to find 1 more. Step 6: know how to find 1 less. Step 7: know about composition to 10.</p>	<p><b>To 20 and Beyond</b> Step 1: know how to build numbers beyond 10 (10 - 13). Step 2: know how to continue patterns beyond 10 (10 - 13). Step 3: know how to build numbers beyond 10 (14 - 20). Step 4: know how to continue patterns beyond 10 (14 - 20). Step 5: know how to verbally count beyond 20. Step 6: know how to verbally count in patterns.</p> <p><b>How many now?</b> Step 1: know how to add more. Step 2: know how many I have added. Step 3: know how to take away. Step 4: know how many I have taken away.</p>	<p><b>Sharing and Grouping</b> Step 4: know about grouping. Step 5: know about even and odd sharing. Step 6: know how to play with and build doubles.</p> <p><b>Visualise, Build and Map</b> Step 1: know how to identify units of repeating patterns. Step 2: know how to create own pattern rules. Step 3: know how to explore own pattern rules. Step 4: know how to replicate and build scenes and constructions. Step 5: know how to visualise from different positions. Step 6: know how to describe positions.</p>

<p>Step 6: know how to create sorting rules. Step 7: know how to compare amounts.</p> <p><b>Talk about measure and patterns</b> Step 1: know how to compare size. Step 2: know how to compare mass. Step 3: know how to compare capacity. Step 4: know how to explore simple patterns. Step 5: know how to copy and continue simple patterns. Step 6: know how to create simple patterns.</p>	<p>Step 1: know how to find 4 and 5. Step 2: know how to subitise 4 and 5. Step 3: know how to represent 4 and 5. Step 4: know how to find 1 more. Step 5: know how to find 1 less. Step 6: know the composition of 4 and 5. Step 7: know the composition of 1-5.</p> <p><b>Shapes with 4 sides</b> Step 1: know how to identify and name shapes with 4 sides. Step 2: know how to combine shapes with 4 sides. Step 3: know how to find shapes in the environment. Step 4: know about day and night.</p>	<p><b>Growing 6, 7, 8</b> Step 1: know how to find 6, 7 and 8. Step 2: know how to represent 6, 7 and 8. Step 3: know how to find 1 more. Step 4: know how to find 1 less. Step 5: know about the composition of 6, 7 and 8. Step 6: know how to make pairs (odd and even). Step 7: know how to double to 8 (find doubles). Step 8: know how to double to 8 (make a double). Step 9: know how to combine 2 groups. Step 10: know about conceptual subitising.</p> <p><b>Length, Height and Time</b> Step 1: know how to explore length. Step 2: know how to compare length. Step 3: know how to explore height.</p>	<p>Step 8: know how to find bonds to 10 (2 parts). Step 9: know how to make arrangements of 10. Step 10: know how to find bonds to 10 (3 parts). Step 11: know how to find doubles to 10 (find a double). Step 12: know how to find doubles to 10 (make a double). Step 13: know how to explore even and odd numbers.</p> <p><b>Explore 3-D Shapes</b> Step 1: know how to recognise and name 3-D shapes. Step 2: know how to find 2-D shapes within 3-D shapes. Step 3: know how to use 3-D shapes for tasks. Step 4: know how to find 3-D shapes in the environment. Step 5: know how to identify more complex patterns.</p>	<p><b>Manipulate, compose and decompose</b> Step 1: know how to select shapes for a purpose. Step 2: know how to rotate shapes. Step 3: know how to manipulate shapes. Step 4: know how to explain shape arrangements. Step 5: know how to compose shapes. Step 6: know how to decompose shapes. Step 7: know how to copy 2-D shape pictures. Step 8: know how to find 2-D shapes within 3-D shapes.</p> <p><b>Sharing and Grouping</b> Step 1: know how to explore sharing. Step 2: know about sharing. Step 3: know how to explore grouping.</p>	<p>Step 7: know how to give instructions to build. Step 8: know how to explore mapping. Step 9: know how to represent maps with models. Step 10: know how to create own maps from familiar places. Step 11: know how to create own maps and plans from story situations.</p> <p><b>Make Connections</b> Step 1: know how to deepen understanding. Step 2: know how to find patterns and relationships.</p> <p><b>Consolidation</b></p>
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			Step 6: know how to copy and continue patterns. Step 7: know how to find patterns in the environment.		
<b>VOCABULARY</b>					
<b>Match, Sort and Compare</b> Match, same, different, picture, object, set, groups, sort, colour, size, shape, rule, compare, amounts, more, fewer, less	<b>It's me 1, 2, 3</b> One, two, three, count, altogether, quantity, subitise, objects, items, group, represent, different ways, numeral, more than, after, less than, before	<b>Alive in 5</b> Zero, nothing there, none, all gone, numeral, amount, one, two, three, four, five, different ways, count, subitise, group, altogether, represent, more than, after, less than, before, parts, whole	<b>Building 9 and 10</b> Nine, ten, count, altogether, quantity, objects, items, group, different ways, numeral, represent, more, fewer, same amount, more than, after, less than, before, parts, whole, bonds, odd, even, pair, double, equal, unequal	<b>To 20 and Beyond</b> Eleven, twelve, thirteen, fourteen, fifteen, sixteen, seventeen, eighteen, nineteen, twenty, count, altogether, quantity, objects, items, group, different ways, numeral, represent, more, fewer, same amount, more than, after, less than, order, before, parts, whole, bonds, odd, even, pair, double, equal, unequal	<b>Visualise, Build and Map</b> Repeat, pattern, next, rule, units, finish, scene, different, position, next to, above, below, in front of, behind, mapping, models, where, follow, route
<b>Talk about measure and patterns</b> Compare, order, size, big, little, large, small, bigger, taller, longer, shorter, smaller, mass, weight, heavy, light, heavier, lighter, balance scale, capacity, containers, boxes, maximum amount, holds the most, holds the least, full, empty, more, less, pattern,	<b>Circles and Triangles</b> Shape, circle, triangle, pointy, sharp, sides, straight, corners, round, same, different, sort, almost circles, almost triangles, small, large, position, in, on, under, over, beside, between, in front of, around, through, behind, next	<b>Mass and Capacity</b> Mass, weight, heavy, light, heavier, lighter, balance scale, float, sink, more, fewer, capacity, containers, boxes, maximum amount, holds the most, holds the least, full, empty, tall, thin, narrow, wide, shallow, water, rice, sand, more than, less than, greatest, smallest	<b>Explore 3-D Shapes</b> Shape, 2-D, circle, triangle, square, rectangle, 3-D cube, cuboid, cylinder pyramid, cone, sphere, sides, straight, corners, round, same, different, sort, faces, flat, curved, roll, stack, pattern, repeated unit, checks, stripes, rhymes, see, hear, copy, continue, next	<b>How many now?</b> First, then, now, how many, add, more, take away, less, left, count, altogether, quantity, objects, items, represent	<b>Make Connections</b> Explain, number, story, how many, altogether, quantity, objects, items, pattern, relationship, check

repeated unit, checks, stripes, rhymes, see, hear, copy, continue, next	<b>1, 2, 3, 4, 5</b> One, two, three, four, five, count, altogether, quantity, subitise, objects, items, group, represent, different ways, numeral, represent, more than, after, less than, before, parts, whole	<b>Growing 6, 7, 8</b> Six, seven, eight, count, altogether, quantity, objects, items, group, different ways, numeral, represent, more than, after, less than, before, parts, whole, odd, even, pair, double		<b>Manipulate, compose and decompose</b> Shape, 2-D, circle, triangle, square, rectangle, 3-D cube, cuboid, cylinder pyramid, cone, sphere, sides, straight, corners, round, same, different, sort, faces, flat, curved, roll, pattern, rotate, turn, move, picture, arranged, next to, in front of, behind, under, over, different way, fold	
	<b>Shapes with 4 sides</b> Shape, square, rectangle, sides, straight, corners, same, different, equal, length, fold, sort, small, large, day, night, first, then, before, after, now, next, later, lunchtime, afternoon	<b>Length, Height and Time</b> Compare, order, size, objects, long, short, longest, shortest, longer, shorter, same, longer than, shorter than, height, tall, short, tallest, shortest, taller than, time, today, tomorrow, evening, at the weekend, next week, now, future, day, week, minute, long, yesterday, last week, last month, last year, before, after, first, then		<b>Sharing and Grouping</b> Share, fair, group, equal, not equal, same amount, left over, altogether, odd, even, pair, double	