



St. Joseph's
Catholic Primary School

MATHS CURRICULUM

socially mistakes morally potential
confidently **Learn** spiritually
Grow academically
Love world
ourselves faith
others **St Joseph's**

LOVE LEARN GROW

ST JOSEPH'S CURRICULUM – MATHS

INTENT - Love

Children develop a passion for Maths.

Maths is given high priority so that children are confident in each year objectives and develop their ability to use this knowledge to solve varied fluency problems as well as problem solving and reasoning questions.

We ensure all children grasp basic skills so they can build on this.

They become **fluent** in the fundamentals of mathematics, including the varied and regular practice of increasingly complex problems over time.

Solve problems by applying their mathematics to a variety of problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.

Reason mathematically by following a line of enquiry, understanding relationships and generalisations, and developing an argument, justification or proof using mathematical language.

Pupils show resilience.

Children know and quickly and confidently recall times tables.

They are able to apply mathematical knowledge to other subjects and life in general.

IMPLEMENTATION - Learn

Children study mathematics daily covering a broad and balanced mathematical curriculum including elements of number, calculation, geometry, measures and statistics. With weekly whole class focused problem solving and arithmetic lessons also built in. There is opportunity to develop fluency skills, problem solving and reasoning in each topic.

White Rose programme forms the basis of the maths curriculum, substituted with a variety of programmes and resource bases. Teachers assess the starting points for all children to ensure next steps and progression. Planning is effective and consistent across all year groups incorporating multi-level challenges. Peeling off technique with lesson groupings varying depending on topics and tasks.

Use of concrete materials – base 10, place value counters and Numicon. Resources are available in each classroom and for all pupils to support grasping of new ideas.

Homework is set on a weekly basis, and relates to the work currently being completed in class. Rockstars is used to enable practice of times tables and motivate pupils. Children are set up using automatic training mode (ATM) so that it is personalised to their needs. We teach Maths in a cross curricular manner as well as discretely to teach the practical application of mathematical skills. Focused days / weeks / parental workshops are used to support learning.

Regular staff training to consolidate approaches, develop staff subject knowledge and build on new initiatives.

IMPACT - Grow

Children retain basic skills and develop fluency.

Formal assessment takes place daily and teachers adjust planning accordingly to meet the needs of all in the class and ensure progression.

Summative assessment takes place at the end of each term and children's progress and attainment is discussed as part of Pupil Progress Meetings.

All pupils make progress from their starting points.

Pupils' achievement is above national average in all reported subjects.

Use rigorous triangulated monitoring throughout the year. Monitoring involves: reviewing learning, through 'planning scrutiny' 'book looks' and 'pupil conferencing'. Providing individual feedback to move practice forward, celebrating positives and highlighting areas of development. Staff subject knowledge developed and maintained – all staff understand expectations.

Parents' ability to support children developed. Children ready for the next stage, with basic skills and life skills such as money and time.

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|-------------|---|--|---|--|---|--------|--|--|--------|--|---------|---------|
| Autumn term | Getting to know you | | Match, sort and compare <small>FREE TRIAL</small> VIEW | Talk about measure and patterns VIEW | It's me 1, 2, 3 VIEW | | Circles and triangles VIEW | 1, 2, 3, 4, 5 VIEW | | Shapes with 4 sides VIEW | | |
| Spring term | Alive in 5 VIEW | Mass and capacity VIEW | Growing 6, 7, 8 VIEW | Length, height and time VIEW | Building 9 and 10 VIEW | | Explore 3-D shapes VIEW | | | | | |
| Summer term | To 20 and beyond VIEW | How many now? VIEW | Manipulate, compose and decompose VIEW | Sharing and grouping VIEW | Visualise, build and map VIEW | | Make connections VIEW | Consolidation | | | | |

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|--------|--|--------|--------|---|--------|---|---|--------|---|----------------------------|---------------------------------------|---------------|
| Autumn | Number Place value (within 10) | | | | | Number Addition and subtraction (within 10) | | | | | Geometry Shape | Consolidation |
| Spring | Number Place value (within 20) | | | Number Addition and subtraction (within 20) | | | Number Place value (within 50) | | Measurement Length and height | | Measurement Mass and volume | |
| Summer | Number Multiplication and division | | | Number Fractions | | Geometry Position and direction | Number Place value (within 100) | | Measurement Money | Measurement Time | | Consolidation |

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--------|-----------------------|---------------------------------------|---------------------|--------|------------------------------------|------------------------------------|----------------------------------|-----------------|---|---------------------|---------|---------|
| Autumn | Number Place value | | | | Number Addition and subtraction | | | | | Geometry Shape | | |
| Spring | Measurement Money | Number Multiplication and division | | | | | Measurement Length and height | | Measurement Mass, capacity and temperature | | | |
| Summer | Statistics | | Number Fractions | | | Geometry Position and direction | | Problem solving | | Measurement Time | | |

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--------|--|--------|-----------------------------|--|----------------------------|--------|------------------------------|--|---|------------|---------|---------------|
| Autumn | Number Place value | | | Number Addition and subtraction | | | | Number Multiplication and division A | | | | |
| Spring | Number Multiplication and division B | | | Measurement Length and perimeter | | | Number Fractions A | | Measurement Mass and capacity | | | |
| Summer | Number Fractions B | | Measurement Money | | Measurement Time | | | Geometry Shape | | Statistics | | Consolidation |

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--------|---|--------|----------------------|-------------------------------------|------------------------------------|---------------------|---------------|---------------------|---|------------|------------------------------------|---------------|
| Autumn | Number Place value | | | | Number Addition and subtraction | | | Measurement Area | Number Multiplication and division A | | | Consolidation |
| Spring | Number Multiplication and division B | | | Measurement Length and perimeter | | Number Fractions | | | Number Decimals A | | | |
| Summer | Number Decimals B | | Measurement Money | | Measurement Time | | Consolidation | Geometry Shape | | Statistics | Geometry Position and direction | |

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--------|--|--------|--------|---|--------|--|--------|--------|--|--|------------|------------------------------|
| Autumn | Number Place value | | | Number Addition and subtraction | | Number Multiplication and division A | | | Number Fractions A | | | |
| Spring | Number Multiplication and division B | | | Number Fractions B | | Number Decimals and percentages | | | Measurement Perimeter and area | | Statistics | |
| Summer | Geometry Shape | | | Geometry Position and direction | | Number Decimals | | | Number Negative numbers | Measurement Converting units | | Measurement Volume |

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--------|------------------------------|--------|---|--------|--|--------|--|--------|--|---------|--|---------|
| Autumn | Number Place value | | Number Addition, subtraction, multiplication and division | | | | Number Fractions A | | Number Fractions B | | Measurement Converting units | |
| Spring | Ratio | | Algebra | | Number Decimals | | Number Fractions, decimals and percentages | | Measurement Area, perimeter and volume | | Statistics | |
| Summer | Geometry Shape | | Geometry Position and direction | | Themed projects, consolidation and problem solving | | | | | | | |