MATHS LONG TERM PLAN

St. John the Baptist Catholic Primary School

Mission Statement

Together,
Through our words and actions, our work and play
We point towards Christ,
Each and every day.

Math's Long Term Plan

EYFS

Aspiration for cohort	
Milestone 1	Cardinality and Counting • To know number names to 5 and then 10. • Develop 1:1 correspondence.. • Counting objects in irregular arrangements. • Know the last number counted gives the total so far. • Subitising up to groups of 3.
	Comparison • Identifying groups of more and less by observing size. • Identifying groups are equal if they have the same number of objects.
	Composition • Part/Whole – identifying smaller numbers within a number (to 5) • Inverse Operations – partitioning into 2 groups and recombining (to 5)
	Pattern • Continue an AB pattern (in a line, a circle, a square) • Copy and then make an AB pattern (in a line, a circle, a square) • Spot an error within an AB pattern (in a line, a circle, a square) • Replicate a known pattern with a variety objects (circle/square; stick/leaf etc)
	Shape and Space • Understand and use positional and directional language (e.g. in, on, under, over) • Choose the most appropriate construction materials to build a stable tower • To be able to name of the four basic 2D shapes through play and exploration
	Measures • Understand and use measures vocabulary (long/short, big/small, heavy/light, fast/slow).

Milestone 2	Cardinality and Counting • To know number names to 15 then 20 • Subitising up to groups of 5 • Numerality - Matching the number symbol to the correct number of objects • Conservation of number – recognising that rearranged amounts remain the same value.
	Comparison • Identifying groups of more and less by observing size. • Identifying groups are equal if they have the same number of objects. • Comparing numbers and reasoning why (within 5) • Knowing 1 more and 1 less
	Composition • Part/Whole – identifying smaller numbers within a number (to 10) • Inverse Operations – partitioning into 2 groups and recombining (to 10)
	Pattern • Continue an ABC pattern (in a line, then a circle, then a square) • Copy and then make an ABC pattern (in a line, then a circle, then a square) • Spot an error within an ABC pattern (in a line, then a circle, then a square) • Replicate a known pattern with a variety objects (circle/square; stick/leaf)
	Shape and Space • Understand and use positional and directional language (e.g. in, on, under, over, up, across, through) • Choose the most appropriate construction materials to build a model. • Using a 2D shape, name and count edges and corners.
	Measures • Compare different measures using related vocabulary (long/short, big/small, heavy/light, full/empty).

Milestone 3	Cardinality and Counting • To recite some number names beyond 20, counting across boundaries • Subitising up to groups of 6 • Number sense: know the order of numbers in the number system and identify missing numbers to 10.
	Comparison • Identifying groups of more and less by observing size • Identifying groups are equall if they contain the same number. • Comparing numbers and reasoning why (within 10). • Identifying 1 more and 1 less.
	Composition • Partitioning one number into different groups of numbers (e.g. 6 = 2+2+2 and 1+1+1+1+1+1) • Recall some number bonds to 10 verbally and using manipulatives
	Pattern • Continue an ABB pattern (in a line, a circle, a square). • Copy and then make an ABB pattern (in a line, a circle, a square). • Spot an error within an ABB pattern (in a line, a circle, a square). • Replicate a known pattern with a variety objects (circle/square; stick/leaf).
	Shape and Space • Move themselves and objects around a space, experiencing different viewpoints. • Understand and use positional and directional language (e.g. forwards, backwards, left, right, in front, behind). • Choose the most appropriate construction materials to build a model following instructions. • To be able to name of the basic 3D shapes through play and exploration (cube, cone, pyramid, sphere).
	Measures • Understand and use measures vocabulary (long/short, big/small, heavy/light, fast/slow, full/empty/half full, near/far). • To read numbers on scales when measuring.

<table>
<tr><th>Year 1</th><th>Week 1</th><th>Week 2</th><th>Week 3</th><th>Week 4</th><th>Week 5</th><th>Week 6</th><th>Week 7</th><th>Week 8</th><th>Week 9</th><th>Week 10</th><th>Week 11</th><th>Week 12</th><th>Week 13</th><th>Week 14</th></tr>
<tr><td rowspan="2">Autumn</td><td colspan="5">1.1
Number and Place Value
Addition and Subtraction</td><td>1.2 Measure ment</td><td colspan="2">1.2
Addition and Subtraction</td><td>1.3 Multiplicatio n and Division</td><td colspan="2">1.3 Fractions and Geometry</td><td colspan="4">1.4
Number and Place Value
Addition and Subtraction</td></tr>
<tr><td colspan="14">Measurement: Utilise everyday opportunities to develop understanding of the passing of time (hours) and ‘time’ language (yesterday, tomorrow, morning, afternoon, evening) and comparative language (quicker, slower etc). Introduce days of the week, months and dates</td></tr>
<tr><td rowspan="2">Spring</td><td colspan="4">1.5
Addition and Subtraction</td><td>1.5 Measure ment - Time</td><td>1.6 Fractions and Geometry</td><td colspan="2">1.6 Multiplication and Division</td><td colspan="3">1.7
Number and Place Value
Addition and Subtraction</td><td colspan="2">1.8
Addition and Subtraction with money</td><td></td><td></td></tr>
<tr><td colspan="14">Measurement: Utilise everyday opportunities to develop understanding of the passing of time (hours and half-hours)</td></tr>
<tr><td>Summer</td><td>1.9
Addition and Subtraction with Mass</td><td colspan="3">1.10
Multiplication and Division</td><td>1.11 Geometry</td><td colspan="3">1.12
Number and Place Value
Addition and Subtraction</td><td colspan="2">1.13
Fractions with Multiplication and Division</td><td>1.14
Measurement: Capacity and Volume</td><td>1.14
Measure ment: Time</td><td colspan="2">1.15
Geometry</td><td></td></tr>
</table>

Year 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	2.1 Number and Place Value Addition and Subtraction				2.2 Measurement	2.2 Addition and Subtraction		2.3 Multiplication and Division		2.3 Fractions and Geometry	2.4 Number and Place Value Addition and Subtraction			2.4 Statistics
	Measurement: Time: Utilise everyday opportunities to tell the time and develop the days of the week and the months of the year Calculation: Utilise everyday contexts to increase fluency with mental strategies using number facts to 20 Begin Table Timer Tests													
Spring	2.5 Addition and Subtraction		2.5 Measurement – Time and Mass		2.6 Fractions and Geometry	2.6 Multiplication and Division		2.7 Number and Place Value Addition and Subtraction		2.7 Statistics	2.8 Calculate with money		2.8 Fractions	
	Measurement: Time: Utilise everyday opportunities to tell the time and develop knowledge of 24 hours in a day and 60 minutes in an hour Table Timer Tests													
Summer	2.9 Measure and Geometry	2.9 Addition and Subtraction	2.10 Multiplication and Division		2.12 Number and Place Value Addition and Subtraction				2.13 Fractions		2.14 Measurement		2.15 Geometry	
	Table Timer Tests – which test???													

<table>
<tr><th>Year 3</th><th>Week 1</th><th>Week 2</th><th>Week 3</th><th>Week 4</th><th>Week 5</th><th>Week 6</th><th>Week 7</th><th>Week 8</th><th>Week 9</th><th>Week 10</th><th>Week 11</th><th>Week 12</th><th>Week 13</th><th>Week 14</th></tr>
<tr><td rowspan="2">Autumn</td><td colspan="3">3.1
Number and Place Value
Addition and Subtraction</td><td>3.2
Measurement:
money</td><td>3.2
Addition and Subtraction</td><td colspan="2">3.3
Multiplication and Division</td><td colspan="2">3.4
Fractions</td><td colspan="2">3.4
Geometry</td><td>3.5
Measurement</td><td colspan="2">3.5
Measurement: time</td></tr>
<tr><td colspan="14">Measurement: Time : Utilise everyday opportunities to tell the time from an analogue clock. Use the vocabulary of time (am/pm; morning/afternoon; noon/midnight. Know the number of days in each month, year and leap year
Table Timer Tests</td></tr>
<tr><td rowspan="2">Spring</td><td>3.6
Fractions</td><td>3.6
Geometry</td><td colspan="2">3.7
Addition and Subtraction</td><td>3.8
Measurement: time</td><td colspan="2">3.9
Multiplication and Division</td><td>3.9
Fractions</td><td colspan="2">3.10
Number and Place Value
Addition and Subtraction with measurement</td><td>3.10
Statistics</td><td></td><td></td></tr>
<tr><td colspan="14">Measurement: Time: Utilize everyday opportunities to tell the time, including on a clock face with Roman numerals.
Number: Practice counting in multiples of 3, 4 and 50, and in 100s from any number
Table Timer Tests</td></tr>
<tr><td rowspan="2">Summer</td><td colspan="3">3.11
Multiplication and Division</td><td colspan="2">3.12
Geometry</td><td colspan="2">3.13
Addition and Subtraction</td><td colspan="2">3.14
Multiplication and Division</td><td>3.14
Fractions</td><td colspan="2">3.15
Measurement: money and time</td><td>3.15
Measurement: length</td></tr>
<tr><td colspan="14">Table Timer Tests</td></tr>
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<table>
<tr><th>Year 4</th><th>Week 1</th><th>Week 2</th><th>Week 3</th><th>Week 4</th><th>Week 5</th><th>Week 6</th><th>Week 7</th><th>Week 8</th><th>Week 9</th><th>Week 10</th><th>Week 11</th><th>Week 12</th><th>Week 13</th><th>Week 14</th></tr>
<tr><td rowspan="2">Autumn</td><td colspan="3">4.1
Number and Place Value
Addition and Subtraction</td><td colspan="2">4.2
Measurement with addition and subtraction</td><td>4.3
Multiplication and Division</td><td colspan="4">4.4
Fractions</td><td>4.4
Geometry</td><td colspan="2">4.5 Measurement</td><td>4.5
Measurement: time</td></tr>
<tr><td colspan="13">Measurement: Time: Utilize everyday opportunities to tell the time from an analogue clock and a 24-hour clock. Estimate and read time with increasing accuracy to the nearest minute. Convert from hours to minutes, minutes to seconds, years to months, weeks to days.
Table Timer Tests</td></tr>
<tr><td rowspan="2">Spring</td><td colspan="3">4.6
Fractions</td><td>4.6
Geometry</td><td colspan="2">4.7
Number and Place Value
Addition and Subtraction</td><td>4.8
Measurement time</td><td colspan="2">4.9
Multiplication and Division</td><td>4.10
Fractions</td><td>4.10
Place Value
Addition and Subtraction with statistics</td><td></td><td></td></tr>
<tr><td colspan="13">Measurement: Time: Utilize everyday opportunities to tell the time, including on a clock face with Roman numerals. Convert to 12-hour and 24-hour time. Read Roman numerals to 100 (C). Practice counting in multiples of 25 and 1000 from zero
Table Timer Tests</td></tr>
<tr><td rowspan="2">Summer</td><td colspan="4">4.11
Multiplication and Division</td><td colspan="2">4.12
Geometry</td><td>4.13
Addition and Subtraction with statistics</td><td colspan="2">4.14
Multiplication and Division</td><td>4.14
Fractions</td><td>4.15
Measurement: money and time</td><td>4.16
Measurement: length</td><td></td></tr>
<tr><td colspan="13">Table Timer Tests</td></tr>
</table>

<table>
<tr><th>Year 5</th><th>Week 1</th><th>Week 2</th><th>Week 3</th><th>Week 4</th><th>Week 5</th><th>Week 6</th><th>Week 7</th><th>Week 8</th><th>Week 9</th><th>Week 10</th><th>Week 11</th><th>Week 12</th><th>Week 13</th><th>Week 14</th></tr>
<tr><td rowspan="2">Autumn</td><td colspan="3">5.1
Number and Place Value
Addition and Subtraction with measurement</td><td colspan="3">5.2
Multiplication and Division with measurement</td><td>5.3
Fractions</td><td>5.4
Fractions</td><td>5.4
Time</td><td colspan="2">5.4
Geometry and Measures</td><td colspan="3">5.5
Number and Place Value and Measurement with the four operations</td></tr>
<tr><td colspan="14">Measurement: Utilize everyday opportunities to convert units using place value understanding and knowledge of tables facts.
Table Timer Tests</td></tr>
<tr><td rowspan="2">Spring</td><td colspan="3">5.6
Fractions</td><td>5.6
Geometry</td><td>5.7
Addition and Subtraction</td><td>5.7
Fractions</td><td>5.8
Statistics</td><td colspan="2">5.9
Measurement and Geometry</td><td>5.9
Fractions</td><td>5.10
Addition and Subtraction</td><td colspan="2">5.11
Multiplication and Division</td><td></td></tr>
<tr><td colspan="14">Measurement: Utilize everyday opportunities to convert units using place value understanding and knowledge of tables facts.
Practice mental strategies using facts, related derived facts and place value knowledge such as adding 99 , adding 0.99, near doubles etc
Table Timer Tests</td></tr>
<tr><td rowspan="2">Summer</td><td colspan="3">5.12
Multiplication and Division</td><td>5.13
Geometry</td><td>5.14
Four Operations</td><td colspan="2">5.15
Addition and Subtraction with statistics</td><td colspan="2">5.16
Fractions</td><td>5.16
Geometry</td><td colspan="2">5.17
Multiplication and Division</td><td>5.18
Four Operations</td></tr>
<tr><td colspan="14">Table Timer Tests
KS2 SATs baseline</td></tr>
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<table>
<tr><th>Year 6</th><th>Week 1</th><th>Week 2</th><th>Week 3</th><th>Week 4</th><th>Week 5</th><th>Week 6</th><th>Week 7</th><th>Week 8</th><th>Week 9</th><th>Week 10</th><th>Week 11</th><th>Week 12</th><th>Week 13</th><th>Week 14</th></tr>
<tr><td rowspan="2">Autumn</td><td colspan="3">6.1
Number and Place Value
Addition and Subtraction</td><td colspan="3">6.2
Multiplication and Division</td><td>6.3
Fractions</td><td>6.4
Percentages</td><td>6.4
Time</td><td colspan="3">6.4
Geometry</td><td colspan="3">6.5
Number and Place Value and Measurement with the four operations</td></tr>
<tr><td colspan="14">Utilize everyday opportunities to develop fluency with a broad range of arithmetic strategies in the context of the current unit of work.
Revise and consolidate key facts for measurement and conversion of units of measure.
KS2 SATs baseline</td></tr>
<tr><td rowspan="2">Spring</td><td colspan="3">6.6
Fractions and Ratio</td><td>6.6
Geometry and Measurement</td><td colspan="2">6.7
Addition and Subtraction (Fractions) with algebra</td><td>6.8
Statistics</td><td>6.9
Measurement</td><td>6.9
Algebra</td><td colspan="3">6.10
Four Operations with statistics</td><td>6.11
Geometry</td><td>6.11
Fractions</td><td></td><td></td></tr>
<tr><td colspan="14">Utilize everyday opportunities to develop fluency with a broad range of arithmetic strategies in the context of the current unit of work.
Revise and consolidate key facts for measurement and conversion of units of measure
Revision and KS2 SATs papers</td></tr>
<tr><td rowspan="2">Summer</td><td colspan="4">6.12
Multiplication and Division</td><td>SATS</td><td>6.14
Fractions</td><td colspan="2">6.16
Four Operations with Algebra</td><td colspan="4">6.16
Fractions with Geometry
Ratio and Proportion</td><td colspan="2">6.17
Multiplication and Division</td><td>6.18
Measurement</td><td></td></tr>
<tr><td colspan="14">Enterprise Activities</td></tr>
</table>