St. Teresa's Catholic Primary School Maths Skills Progression Class 5

Term	Maths Topics and Learning Objectives		
Autumn	**Number, Place Value and Rounding** • Recognise the place value of each digit in a 3-digit number (100s, 10s, 1s). • Compare and order numbers up to 1,000. • Identify, represent and estimate numbers using different representations. • Read and write numbers up to 1,000 in numerals and in words. • Solve number problems and practical problems involving these ideas.	**Calculations (Addition and Subtraction)** • Estimate the answer to a calculation and use inverse operations to check answers. • Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.	**Geometry – Properties of Shapes (Double Maths Day)** • Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them. • Recognise angles as a property of shape or a description of a turn. • Identify right angles. • Recognise that 2 right angles make a half-turn, 3 make three quarters of a turn and 4 a complete turn. • Identify whether angles are greater than or less than a right angle. • Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.
Autumn: Basic Skills and Arithmetic Practice	• Count in steps of: - 2 from 0 - 3 from 0 - 5 from 0 - 10 from any number • recall and use multiplication and division facts: - 2x tables - 5x tables - 10x tables • recognising odd and even numbers • Count from 0 in multiples of 4, 8, 50 and 100 • find 10 or 100 more or less than a given number • Double and halve numbers up to 100 • recall and use addition and subtraction facts to 20 fluently, derive and use related facts up to 100 e.g. 6 + 4 = 10 so 60 + 40 = 100	• add and subtract mentally: - A 2-digit number and one - A 2-digit number and tens - Two 2-digit numbers - Two 2-digit numbers with regrouping e.g. 52-27 - Adding three 1-digit numbers • add and subtract numbers within 100 using concrete objects, pictorial representations and written methods: - A 2-digit number and ones - A 2-digit number and tens - Two 2-digit numbers - Adding three 1-digit numbers • show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.	

Autumn Term 1 – KIRF

Year 3: Know all addition and subtraction facts for multiples of 10 to 100.

Autumn Term 2 – KIRF

Year 3: Know multiplication and division facts for the 4 x table.

Ongoing KIRF: Tell the time to the nearest 5 minutes.

Distributed daily practice of these basic skills and arithmetic skills to be informed by AfL;

the revisiting of stated objectives through recall activities is informed by teacher AfL.

Spring

Calculations
(Multiplication and Division)

- Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods**.**
- Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.

Fractions

- Count up and down in tenths
- Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10.
- Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.
- Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.

Statistics
(Double Maths Day)

- Interpret and present data using bar charts, pictograms and tables.
- Solve one-step and two-step questions using information presented in
  - scaled bar charts
  - pictograms
  - tables.

Spring: Basic Skills and Arithmetic Practice

- Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables**.**
- Add and subtract numbers mentally, including:
  - a three-digit number and 1s
  - a three-digit number and 10s
  - a three-digit number and 100s.
- Add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction.

Distributed daily practice of these basic skills and arithmetic skills to be informed by AfL; the revisiting of stated objectives through recall activities is informed by teacher AfL.

Spring Term 1 – KIRF

Year 3: Know multiplication and division facts for the 6 times table.

Spring Term 2 – KIRF

Year 3: Know multiplication and division facts for the 9 times table.

Ongoing KIRF: Tell the time to the nearest 5 minutes.

<table>
<tr>
<td>Summer</td>
<td><u>Fractions</u>
• Recognise and show, using diagrams, equivalent fractions with small denominators.
• Add and subtract fractions with the same denominator within one whole.
• Compare and order unit fractions, and fractions with the same denominators.
• Solve problems that involve all of the above.</td>
<td><u>Measurement (Length and Perimeter; Mass and Capacity; Money; Time)</u>
• Measure, compare, add and subtract:
– lengths (m/cm/mm)
– mass (kg/g)
– volume/capacity (l/ml).
• Measure the perimeter of simple 2-D shapes.
• Add and subtract amounts of money to give change, using both £ and p in practical contexts.
• Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.
• Estimate and read time with increasing accuracy to the nearest minute.
• Record and compare time in terms of seconds, minutes and hours.
• Use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight.
• Know:
– the number of seconds in a minute
– the number of minutes in an hour
– the number of hours in a day
• Know the number of days in each month, year and leap year.
• Compare durations of events</td>
<td><u>Consolidation and Revision</u>
• Emerging needs from Assessments for Learning</td>
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<tr>
<td>Summer: Basic Skills and Arithmetic</td>
<td colspan="3">• Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.
• Introduction to 7 times table.
• Add and subtract numbers mentally, including:
– a three-digit number and 1s
– a three-digit number and 10s
– a three-digit number and 100s.
• Add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction.
• tell and write the time to the nearest:
– hour
– half an hour
– 15 minutes, and draw the hands on a clock face to show these times.
• sequence intervals of time.
• know the number of minutes in an hour.
• know the number of hours in a day.</td>
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	Summer Term 1 – KIRF **Year 3: Know multiplication and division facts for the 8 times table.** **Summer Term 2 – KIRF** **Year 3: Know number bonds to 100 (any given number)** **Ongoing KIRF: Tell the time to the nearest 5 minutes.** **Distributed daily practice of these basic skills and arithmetic skills to be informed by AfL; the revisiting of stated objectives through recall activities is informed by teacher AfL.**