

# Maths



## The Inspire Multi Academy Trust (South West)



# SUBJECT ON A PAGE Maths

## Intent

We take a mastery approach to the teaching and learning of Maths. Essentially, our ethos is that all children can be successful in the study of maths.



We teach the skills to ensure our children are resilient learners who become life-long Mathematicians.



We aim to deliver an inspiring and engaging Maths curriculum through high quality teaching.



Our Maths approach enables children to be numerate, creative, independent, inquisitive, enquiring and confident. Children should not be afraid to make mistakes and should fully embrace the fact that mistakes are part of learning.



Teachers promote children's enjoyment of Maths and provide opportunities for children to build a conceptual understanding of Maths before applying their knowledge to everyday problems and challenges..

AT THE INSPIRE MULTI ACADEMY TRUST WE BELIEVE THAT MATHS IS INTEGRAL TO ALL ASPECTS OF LIFE AND WITH THIS IN MIND WE ENDEAVOUR TO ENSURE THAT CHILDREN DEVELOP A HEALTHY AND ENTHUSIASTIC ATTITUDE TOWARDS MATHS, THAT WILL STAY WITH THEM AND WILL ENCOURAGE ECONOMIC WELLBEING. LATER IN LIFE.



## Implementation



### CONSISTENT APPROACH

At TIMAT, we recognise that children need to be confident and fluent across each yearly objective. To ensure consistent coverage, teachers follow the Power Maths scheme of learning to support their planning and teaching. Power Maths is an exciting and inspiring class mastery approach, which has been recommended by the Department for Education. Every Power Maths lesson is divided into sections that involve plenty of discovery, sharing, thinking together, practice and reflection. After a quick Multiplication Starter or Retrieval Challenge, the main lesson begins with a 'Discover' and 'Share' task in which a contextual problem is shared for the children to discuss in partners. This helps promote discussion and encourages the children to apply their Oracy skills in a real-life context, it also ensures that mathematical ideas are introduced in a logical way to support conceptual understanding.



### PROVISION

Maths contributes to many subjects, and it is important are given opportunities to apply and use Maths across the curriculum and in real contexts when possible. We endeavour at all times to set tasks that have high expectations for all, are challenging, motivating and encourages pupils to talk about what they have been doing as well as responding to written questions to develop their understanding as outlined in the school's marking policy.



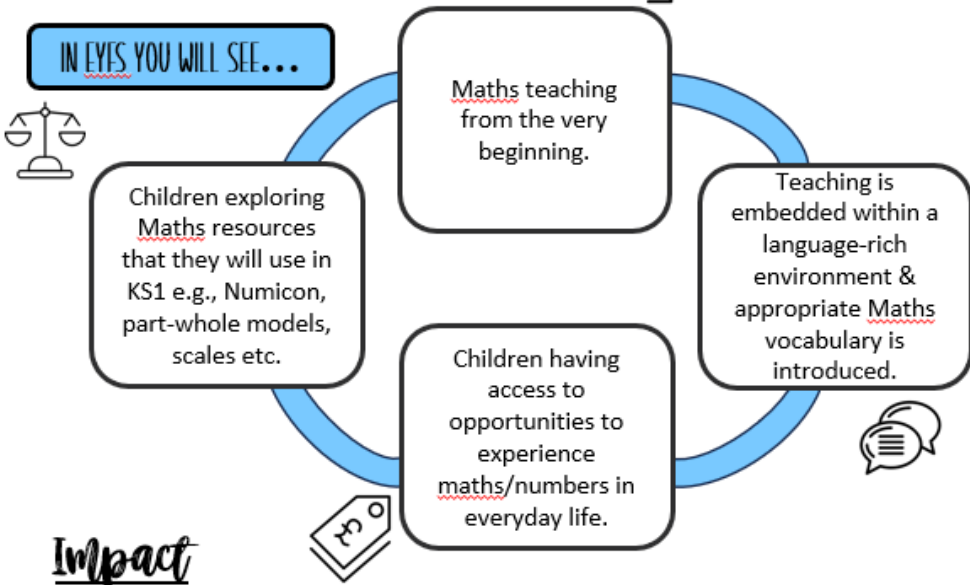
## LESSON DESIGN

Each Maths lesson includes the following parts:

- A Retrieval Challenge or Multiplication Starter:** A 10-minute mental recall activity to help gain fluency in Mathematical facts.
- Discover and Share:** This part of the lesson encourages ping pong teaching, a model where pair work, shared learning and teaching instructions are back and forth. This part encourages some discovery in pairs and some whole class discussions.
- Think Together:** This part of the lesson is where we follow the I do, we do, you do method. The teacher models and explains, the children all have a go together and get a chance to practise before the independent task.
- Practice:** Children use the Power Maths questions during this part of the lesson and are encouraged to use resources modelled during the 'think together' section.
- Reflect:** Here, children have an opportunity to consolidate their learning independently.
- Deeper Learning Challenge:** Additionally, we also give the children deeper learning challenges to help further their understanding.



# Implementation continued...



## Impact

### ASSESSMENT

Assessment is regarded as an integral part of teaching and learning and is a continuous process being monitored by the Target Tracker Application. In our Trust we are continually assessing our pupils and recording their progress. We see assessment for and of learning as an integral part of the teaching process and strive to make our assessment purposeful, thus benefiting the pupils and ensuring progress. Information for assessment will be gathered in various ways: by talking to the children, observing them, marking their learning, etc. Teachers will use these assessments to plan further lessons as and when required. Ongoing assessment relating to the Target Tracker Application statements for each pupil shall be recorded electronically. The children will be formally assessed three times a year to record progress and this progress will be assessed during Pupil Progress Meetings and Inclusion Reviews.

### DEEP UNDERSTANDING OF CONCEPTS

The Power Maths scheme of learning is designed to give sufficient time for teachers to explore and understand concepts in depth rather than covering them superficially and revisiting several times. This practice and consolidation helps children to grasp the links between topics and to understand them more deeply. Prior content is carefully interwoven with new content to help children grasp links between topics and to understand them more deeply.



### RECORDING OF LEARNING

Each child in Years 1 and 2 has their own Power Maths Practice Book in which they answer questions and discuss their thinking with their teacher. In the Key Stage 2 classrooms, the Power Maths questions and resources are used in the children's own Maths Books. If children have struggled with a concept within the lesson, the teacher may decide to carry out a High Impact Lesson (HIL) the next day in which the concept will be revisited in a different way. This is important to ensure that the children have fully understood before moving on to the next small step.



Through consistent teaching and high expectations, children within the TIMAT Trust will become fluent in mathematical understanding and reasoning.

### FLUENCY

Children have positive attitudes to Maths and persevere in their learning. They see any mistakes as learning opportunities.



Children can confidently recall number facts appropriate for their age, such as number bonds and times tables, with most Year 4 children passing the times table check.



## The Inspire Multi Academy Trust

### Whole School Maths Curriculum Overview

Reception	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
<b>Maths Unit</b>	<p><b>Unit 1: Numbers to 5</b> <b>Number: Number and Place Value</b></p> <ul style="list-style-type: none"> <li>Counting to 1,2 and 3</li> <li>Counting to 4</li> <li>Counting to 5</li> </ul> <p><b>Unit 2: Comparing groups within 5</b> <b>Number: Number and Place Value</b></p> <ul style="list-style-type: none"> <li>Comparing quantities of identical objects</li> <li>Comparing quantities of non-identical objects</li> </ul> <p><b>Unit 3: Shape</b> <b>Geometry: Properties of Shape</b></p> <ul style="list-style-type: none"> <li>3D Shapes</li> <li>2D Shapes</li> </ul>	<p><b>Unit 4: Change within 5</b> <b>Number: Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>One more</li> <li>One less</li> </ul> <p><b>Unit 5: Number bonds within 5</b> <b>Number: Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>Introducing the part-whole model</li> </ul> <p><b>Unit 6: Space</b> <b>Geometry: Properties of Shape</b></p> <ul style="list-style-type: none"> <li>Spatial awareness</li> </ul>	<p><b>Unit 7: Numbers to 10</b> <b>Number: Number and Place Value</b></p> <ul style="list-style-type: none"> <li>Counting to 6, 7 and 8</li> <li>Counting to 9 and 10.</li> </ul> <p><b>Unit 8: Comparing number within 10.</b> <b>Number: Number and Place Value</b></p> <ul style="list-style-type: none"> <li>Comparing groups up to 10.</li> </ul> <p><b>Unit 9: Addition to 10</b> <b>Number: Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>Combining 2 groups to find the whole.</li> </ul> <p><b>Unit 10: Measure</b> <b>Measurement</b></p> <ul style="list-style-type: none"> <li>Length, height and distance</li> <li>Weight</li> </ul>	<p><b>Unit 11: Number bonds to 10</b> <b>Number: Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>Using a ten frame</li> <li>The part-whole model to 10</li> </ul> <p><b>Unit 12: Subtraction</b> <b>Number: Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>Subtraction</li> </ul> <p><b>Unit 13: Exploring Patterns</b> <b>Geometry: Properties of Shape</b></p> <ul style="list-style-type: none"> <li>Making simple patterns</li> <li>Exploring more complex patterns</li> </ul>	<p><b>Unit 14: Counting on and back</b> <b>Number: Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>Adding by counting on</li> <li>Taking away by counting back</li> </ul> <p><b>Unit 15: Numbers to 20</b> <b>Number: Number and Place Value</b></p> <ul style="list-style-type: none"> <li>Counting to and from 20</li> </ul> <p><b>Unit 16: Numerical Patterns</b> <b>Number- Multiplication and Division</b></p> <ul style="list-style-type: none"> <li>Doubling</li> <li>Halving and Sharing</li> </ul>	<p><b>Unit 17: Shape</b> <b>Geometry: Properties of Shape</b></p> <ul style="list-style-type: none"> <li>Composing and decomposing shapes</li> </ul> <p><b>Unit 18: Measure</b> <b>Number: Number and Place Value</b></p> <ul style="list-style-type: none"> <li>Volume and Capacity</li> </ul> <p><b>Unit 19: Sorting</b> <b>Number: Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>Sorting into 2 groups</li> </ul> <p><b>Unit 20: Time</b> <b>Measurement</b></p> <ul style="list-style-type: none"> <li>My Day</li> </ul>
<b>ELG 2021</b>	<ul style="list-style-type: none"> <li>Have a deep understanding of number to 10, including the composition of each number.</li> <li>Subitise (recognise quantities without counting) up to 5.</li> <li>Recognise the pattern of the counting system.</li> <li>Compare quantities up to 10 in different contexts, recognising when one quantity is</li> </ul>	<ul style="list-style-type: none"> <li>Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.</li> <li>Have a deep understanding of number to 10, including the composition of each number.</li> </ul>	<ul style="list-style-type: none"> <li>Have a deep understanding of number to 10, including the composition of each number.</li> <li>Subitise (recognise quantities without counting) up to 5. <ul style="list-style-type: none"> <li>Verbally count, (recognising the pattern of the counting system)</li> </ul> </li> <li>Compare quantities up to 10 in different contexts, (recognising when one quantity is greater than,</li> </ul>	<ul style="list-style-type: none"> <li>Have a deep understanding of number to 10, including the composition of each number.</li> <li>Subitise (recognise quantities without counting) up to 5.</li> <li>Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and</li> </ul>	<ul style="list-style-type: none"> <li>Have a deep understanding of number to 10, including the composition of each number.</li> <li>Verbally count beyond 20, recognising the pattern of the counting system.</li> <li>Explore and represent patterns within numbers up to 10, including evens and</li> </ul>	<ul style="list-style-type: none"> <li>Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.</li> </ul>

	<p>greater than, less than or the same as the other quantity.</p> <ul style="list-style-type: none"> <li>• Subitise (recognise quantities without counting) up to 5.</li> </ul>	<ul style="list-style-type: none"> <li>• Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 and some number bonds to 10, including double facts.</li> </ul>	<p>less than or the same as the other quantity).</p> <ul style="list-style-type: none"> <li>• Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.</li> <li>• Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.</li> </ul>	<p>some number bonds to 10, including double facts.</p> <ul style="list-style-type: none"> <li>• Have a deep understanding of number to 10, including the composition of each number.</li> </ul>	<p>odds, double facts and how quantities can be distributed equally.</p>	
<p><b>Key Vocabulary</b></p>	<p>number names, count, forwards. Backwards, how many, total, altogether, five frame, same, different, next, after, arrange</p>	<p>number names count, forwards. Backwards, how many, total, altogether, five frame, same, different, more, fewer, every, represent, match, sort, compare, equal, greater, less</p>	<p>number names Count, forwards. Backwards, how many, total, altogether, five frame, same, different, more, fewer, every, represent, match, sort, compare, equal, greater, less</p>	<p>roll, stack, push, curved, straight, round, corners, faces, edges, sides, square, rectangle, circle, triangle, sphere, cube, cuboid, cylinder, cone, odd one out, properties, characteristics</p>	<p>first, then, now, order, take away, add, together, ten frame, group, part, whole, part whole, how many, counting, same, different</p>	<p>in, on, under, below, in front of, behind, next to, up, down across, language of each measure</p>

Year 1	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
<p style="text-align: center;"><b>Maths Unit</b></p>	<p><b>Unit 1: Numbers to 10</b> <b>Number: Number and Place Value</b></p> <ul style="list-style-type: none"> <li>• Sorting objects</li> <li>• Counting objects to 10</li> <li>• Representing numbers to 10</li> <li>• Count objects from a larger group</li> <li>• Count on from any number</li> <li>• One more</li> <li>• Count backwards from 10 to 0</li> <li>• One less</li> <li>• Compare groups</li> <li>• Fewer or more?</li> <li>• &lt;, &gt; or =</li> <li>• Compare numbers</li> <li>• Order objects and numbers</li> <li>• The number line</li> </ul> <p><b>Unit 2: Part-whole within 10</b> <b>Number: Number and Place Value</b></p> <ul style="list-style-type: none"> <li>• Part and wholes</li> <li>• The part-whole model</li> <li>• Write number sentences</li> <li>• Fact families- addition facts</li> <li>• Number bonds</li> <li>• Find number bonds</li> <li>• Number bonds to 10.</li> </ul> <p><b>Unit 3: Addition within 10</b> <b>Number: Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>• Add together</li> <li>• Add more</li> </ul>	<p><b>Unit 4: Subtraction within 10</b> <b>Number: Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>• Subtraction – how many are left?</li> <li>• Subtraction – breaking apart related facts –</li> <li>• Fact families</li> <li>• Subtraction on a number line</li> <li>• Add or subtract 1 or 2</li> <li>• Solve word problems- addition and subtraction.</li> </ul> <p><b>Unit 5: 2D and 3D shapes</b> <b>Geometry: Properties of Shapes</b></p> <ul style="list-style-type: none"> <li>• Recognising and naming 3D shapes</li> <li>• Sorting 3D shapes</li> <li>• Recognise and name 2D shapes</li> <li>• Sort 2D shapes</li> <li>• Make patterns with shapes.</li> </ul>	<p><b>Unit 6: Numbers to 20</b> <b>Number: Number and Place Value</b></p> <ul style="list-style-type: none"> <li>• Counting to 20</li> <li>• Understand 10</li> <li>• 11, 12 and 13</li> <li>• 14, 15 and 16</li> <li>• 17, 18 and 19</li> <li>• Understand 20</li> <li>• One more and one less</li> <li>• The number line to 20</li> <li>• Label number lines</li> <li>• Estimate on a number line</li> <li>• Compare numbers to 20</li> <li>• Order numbers to 20</li> </ul> <p><b>Unit 7: Addition and subtraction within 20</b> <b>Number: Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>• Add by counting on within 20.</li> <li>• Add ones using number bonds</li> <li>• Find and make number bonds to 20</li> <li>• Doubles</li> <li>• Near doubles</li> <li>• Subtract ones using number binds</li> <li>• Subtraction- count back</li> <li>• Subtraction- find the difference</li> <li>• Related facts- fact families</li> <li>• Missing number problems</li> <li>• Solve word and picture problems- addition and subtraction</li> </ul> <p><b>Unit 8: Numbers to 50 (The remainder of this unit will be completed in Term 4)</b></p>	<p><b>Unit 8: Numbers to 50 (The remainder of this unit will be completed in Term 4)</b> <b>Number: Number and Place Value</b></p> <ul style="list-style-type: none"> <li>• Counting to 50</li> <li>• Numbers to 50</li> <li>• 20, 30, 40 and 50</li> <li>• Count by making groups of 10s</li> <li>• Groups or 10s and 1s</li> <li>• Partition into 10sand 1s</li> <li>• One more, one less.</li> </ul> <p><b>Unit 9: Introducing Length and Height</b> <b>Measurement</b></p> <ul style="list-style-type: none"> <li>• Comparing lengths and heights</li> <li>• Non-standard units of measure</li> <li>• Measuring length using a ruler</li> <li>• Solving word problems – length</li> </ul> <p><b>Unit 10: Introducing Mass and Capacity</b> <b>Measurement</b></p> <ul style="list-style-type: none"> <li>• Heavier and lighter</li> <li>• Measure mass</li> <li>• Compare mass</li> <li>• Full and empty</li> <li>• Measuring capacity</li> <li>• Comparing capacity</li> <li>• Solving word problems – mass and capacity</li> </ul>	<p><b>Unit 11: Multiplication and Division</b> <b>Number: Multiplication and Division</b></p> <ul style="list-style-type: none"> <li>• Counting in 2s</li> <li>• Counting in 10s</li> <li>• Counting in 5s</li> <li>• Making equal groups</li> <li>• Adding equal groups</li> <li>• Making simple arrays</li> <li>• Making doubles</li> <li>• Grouping</li> <li>• Sharing</li> </ul> <p><b>Unit 12: Fractions</b> <b>Number: Fractions</b></p> <ul style="list-style-type: none"> <li>• Recognise and find a half of a shape</li> <li>• Recognise and find a half of a quantity</li> <li>• Recognise and find a quarter of a shape</li> <li>• Recognise and find a quarter of a quantity</li> </ul> <p><b>Unit 13: Position and direction</b> <b>Geometry: Position and Direction</b></p> <ul style="list-style-type: none"> <li>• Describing turns</li> <li>• Describing positions- left and right</li> <li>• Describing position- forwards and backwards</li> <li>• Describe position- above and below</li> <li>• Ordinal numbers</li> </ul>	<p><b>Unit 14: Numbers to 100</b> <b>Number: Number and Place Value</b></p> <ul style="list-style-type: none"> <li>• Count from 50 to 100</li> <li>• 10s to 100</li> <li>• Partition into 10s and 1s</li> <li>• Number line to 100</li> <li>• One more and one less</li> <li>• Compare numbers</li> </ul> <p><b>Unit 15: Money</b> <b>Measurement</b></p> <ul style="list-style-type: none"> <li>• Recognising coins</li> <li>• Recognising notes</li> <li>• Counting with coins</li> </ul> <p><b>Unit 16: Time</b> <b>Measurement</b></p> <ul style="list-style-type: none"> <li>• Using before and after</li> <li>• Days of the week</li> <li>• Months of the year</li> <li>• Tell the time to the hour</li> <li>• Tell the time to the half hour.</li> </ul>

	<ul style="list-style-type: none"><li>• Addition problems</li><li>• Find the missing number.</li></ul>		<p><b>Number: Number and Place Value</b></p> <ul style="list-style-type: none"><li>• Counting to 50</li><li>• Numbers to 50</li><li>• 20, 30, 40 and 50</li><li>• Count by making groups of 10s</li><li>• Groups of 10s and 1s</li><li>• Partition into 10s and 1s</li><li>• One more, one less.</li></ul>			
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Year 2	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Maths Unit	<p><b>Unit 1: Numbers to 100</b> <b>Number: Number and Place Value</b></p> <ul style="list-style-type: none"> <li>Numbers to 20</li> <li>Counting in 10s</li> <li>Counting in 10s and 1s</li> <li>Recognising 10s and 1s</li> <li>Building a number from 10s and 1s</li> <li>Using a place value grid</li> <li>Partitioning numbers to 100</li> <li>Partition numbers flexibly within 100</li> <li>Write numbers to 100 in expanded form</li> <li>10s on a number line to 100</li> <li>10s and 1s on a number line to 100</li> <li>Estimate numbers on a number line</li> <li>Comparing numbers</li> <li>Ordering numbers</li> <li>Count in 2s, 5s and 10s</li> <li>Count in 3s.</li> </ul> <p><b>Unit 2- Addition and Subtraction- Part 1 (The remainder of this unit will be completed in Term 2)</b> <b>Number: Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>Fact families</li> <li>Learning number bonds</li> <li>Adding two multiples of 10</li> <li>Complements to 100 (tens)</li> <li>Adding and subtracting 1s</li> <li>Adding to make 10</li> <li>Adding using a number line</li> <li>Adding three 1-digit numbers</li> <li>Adding to the next 10</li> <li>Adding across 10</li> <li>Subtracting across 10</li> <li>Subtracting from a 10</li> </ul> <p>Subtracting a 1-digit number from a 2-digit number across 10</p> <p><b>Unit 3: Addition and Subtraction- Part 2</b> <b>Number: Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>Adding and subtracting 10s</li> <li>Adding 2-digit numbers by adding 10s and 1s</li> <li>Subtracting a 2-digit number from a 2-digit number- not across 10</li> <li>Subtracting a 2-digit number from a 2-</li> </ul>	<p><b>Unit 2- Addition and Subtraction- Part 1 (The remainder of this unit will be completed in Term 2)</b> <b>Number: Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>Fact families</li> <li>Learning number bonds</li> <li>Adding two multiples of 10</li> <li>Complements to 100 (tens)</li> <li>Adding and subtracting 1s</li> <li>Adding to make 10</li> </ul> <p><b>Unit 3: Addition and Subtraction- Part 2</b> <b>Number: Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>Adding and subtracting 10s</li> <li>Adding 2-digit numbers by adding 10s and 1s</li> <li>Subtracting a 2-digit number from a 2-digit number- not across 10</li> <li>Subtracting a 2-digit number from a 2-</li> </ul>	<p><b>Unit 5: Money Measurement</b></p> <ul style="list-style-type: none"> <li>Counting pence</li> <li>Counting pounds using notes and coins</li> <li>Counting money in pounds and pence</li> <li>Choosing notes and coins</li> <li>Making the same amounts in different ways</li> <li>Comparing amounts of money</li> <li>Calculating with money</li> <li>Making £1</li> <li>Finding change</li> <li>Two-step problems</li> </ul> <p><b>Unit 6: Multiplication and Division- Part 1</b> <b>Number: Multiplication and Division</b></p> <ul style="list-style-type: none"> <li>Recognising equal groups</li> <li>Making equal groups</li> <li>Adding equal groups</li> <li>The x sign</li> <li>Multiplication sentences</li> <li>Using arrays</li> <li>Making equal groups using grouping</li> <li>Making equal groups using sharing</li> </ul> <p><b>Unit 7: Multiplication and Division- Part 2 (The remainder of this unit will be completed in Term 4)</b> <b>Number: Multiplication and Division</b></p> <ul style="list-style-type: none"> <li>2 times-tables</li> <li>Dividing by 2</li> <li>Doubling and halving</li> </ul>	<p><b>Unit 7: Multiplication and Division- Part 2 (The remainder of this unit will be completed in Term 4)</b> <b>Number: Multiplication and Division</b></p> <ul style="list-style-type: none"> <li>2 times-tables</li> <li>Dividing by 2</li> <li>Doubling and halving</li> <li>Recognising odd and even numbers</li> <li>10 times-table</li> <li>Dividing by 10</li> <li>5 times-table</li> <li>Dividing by 5</li> <li>Bar modelling for grouping</li> <li>Bar modelling for sharing</li> </ul> <p><b>Unit 8: Length and Height Measurement</b></p> <ul style="list-style-type: none"> <li>Measuring in cm</li> <li>Measuring in m</li> <li>Comparing lengths and heights</li> <li>Ordering lengths and heights</li> <li>Using the four operations with lengths and heights</li> </ul> <p><b>Unit 9: Mass, Capacity and Temperature Measurement</b></p> <ul style="list-style-type: none"> <li>Comparing mass</li> <li>Measuring in grams</li> <li>Measuring in kilograms</li> <li>Comparing volume and capacity</li> <li>Measuring in millilitres</li> <li>Measuring in litres</li> <li>Measuring temperature using a thermometer</li> <li>Reading thermometers</li> </ul>	<p><b>Unit 10: Fractions Fractions</b></p> <ul style="list-style-type: none"> <li>Introducing parts and wholes</li> <li>Equal and unequal parts</li> <li>Recognising a half</li> <li>Finding a half</li> <li>Recognising a quarter</li> <li>Finding a quarter</li> <li>Thirds</li> <li>Find the whole</li> <li>Unit and non-unit fractions</li> <li>Recognising the equivalence of a half and two quarters</li> <li>Recognising three quarters</li> <li>Counting n fractions up to a whole</li> </ul> <p><b>Unit 11: Time Measurement</b></p> <ul style="list-style-type: none"> <li>O'clock and half past</li> <li>Quarter past and quarter to</li> <li>Telling the time to 5 minutes</li> <li>Minutes in an hour</li> <li>Hours in a day</li> </ul> <p><b>Unit 12: Problem Solving and Efficient Methods</b> <b>Number: Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>My way, your way!</li> <li>Using number facts</li> <li>Using a 100 square</li> <li>Getting started</li> <li>Missing numbers</li> </ul>	<p><b>Unit 13: Position and Direction</b> <b>Geometry: Position and Direction</b></p> <ul style="list-style-type: none"> <li>Language of position</li> <li>Describing movement</li> <li>Describing turns</li> <li>Describing movement and turns</li> <li>Making patterns by turning shapes</li> </ul> <p><b>Unit 14: Statistics</b> <b>Statistics</b></p> <ul style="list-style-type: none"> <li>Making tally charts</li> <li>Tables</li> <li>Block diagrams</li> <li>Drawing pictograms (1 to 1)</li> <li>Interpreting pictograms (1 to 2, 5 or 10)</li> <li>Interpreting pictograms (1 to 2, 5 or 10)</li> </ul>



	<ul style="list-style-type: none"> <li>• Adding using a number line</li> <li>• Adding three 1-digit numbers</li> <li>• Adding to the next 10</li> <li>• Adding across 10</li> <li>• Subtracting across 10</li> <li>• Subtracting from a 10</li> <li>• Subtracting a 1-digit number from a 2-digit number across 10</li> </ul>	<p>digit number- across 10</p> <ul style="list-style-type: none"> <li>• How many more? How many fewer?</li> <li>• Subtracting by finding the difference</li> <li>• Comparing number sentences</li> <li>• Missing number problems</li> <li>• Mixed addition and subtraction</li> <li>• Two-step problems</li> </ul> <p><b>Unit 4: Properties of Shapes</b>  <b>Geometry: Properties of Shapes</b></p> <ul style="list-style-type: none"> <li>• Counting sides on 2D shapes</li> <li>• Counting vertices on 2D shapes</li> <li>• Drawing 2D shapes</li> <li>• Identifying lines of symmetry on shapes</li> <li>• Sorting 2D shapes</li> <li>• Make patterns with 2D shapes</li> <li>• Counting faces on 3D shapes</li> <li>• Counting edges on 3D shapes</li> <li>• Counting vertices on 3D shapes</li> <li>• Sorting 3D shapes</li> <li>• Making patterns with 3D shapes</li> </ul>	<ul style="list-style-type: none"> <li>• Recognising odd and even numbers</li> <li>• 10 times-table</li> <li>• Dividing by 10</li> <li>• 5 times-table</li> <li>• Dividing by 5</li> <li>• Bar modelling for grouping</li> <li>• Bar modelling for sharing</li> </ul>		<ul style="list-style-type: none"> <li>• Mental addition and subtraction</li> <li>• Efficient subtraction</li> <li>• Solving problems involving addition and subtraction</li> <li>• Solving problems involving multiplication and division</li> <li>• Solving problems using the four operations</li> </ul>	
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Year 3	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Maths Unit	<p><b>Unit 1: Place value within 1,000</b> <b>Number: Number and Place Value</b></p> <ul style="list-style-type: none"> <li>Represent and partition numbers to 100</li> <li>Number lines to 1000</li> <li>100s</li> <li>Represent numbers to 1,000</li> <li>Partition numbers to 1,000</li> <li>Partition numbers to 1,000 flexibly</li> <li>100s, 10s and 1s</li> <li>Use a number line to 1,000</li> <li>Estimate on a number line to 1,000</li> <li>Find 1, 10 and 100 more or less</li> <li>Compare numbers to 1,000</li> <li>Order numbers to 1,000</li> <li>Count in 50s</li> </ul> <p><b>Unit 2: Addition and Subtraction- Part 1</b> <b>Number: Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>Apply number bonds within 10</li> <li>Add/subtract 1s</li> <li>Add/subtract 10s</li> <li>Add/subtract 100s</li> <li>Spot the pattern</li> <li>Add 1s across 10</li> <li>Add 10s across 100</li> <li>Subtract 1s across 10</li> <li>Subtract 10s across 100</li> <li>Making connections</li> </ul>	<p><b>Unit 3: Addition and Subtraction- Part 2</b> (The remainder of this unit will be completed in Term 2) <b>Number: Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>Add two numbers</li> <li>Subtract two numbers</li> <li>Add two numbers (across 10)</li> <li>Add two numbers (across)</li> <li>Subtract two numbers (across 10)</li> <li>Subtract two numbers (across 100)</li> <li>Add a 3-digit and 2-digit number</li> <li>Subtract a 2-digit number from a 3-digit number</li> <li>Complements to 100</li> <li>Estimate numbers</li> <li>Inverse operations</li> <li>Problem Solving</li> </ul> <p><b>Unit 4: Multiplication and Division- Part 1</b> <b>Number: Multiplication and Division</b></p> <ul style="list-style-type: none"> <li>Multiplication – equal grouping</li> <li>Using arrays</li> <li>Multiples of 2</li> <li>Multiples of 5</li> <li>Sharing and grouping</li> </ul> <p><b>Unit 5: Multiplication and Division- Part 2</b> <b>Number: Multiplication and Division</b></p> <ul style="list-style-type: none"> <li>Multiply by 3</li> </ul>	<p><b>Unit 6: Multiplication and Division- Part 3</b> <b>Number: Multiplication and Division</b></p> <ul style="list-style-type: none"> <li>Multiples of 10</li> <li>Related calculations</li> <li>Reasoning about multiplication</li> <li>Multiply 2-digits by 1-digit- no exchanging</li> <li>Multiply 2-digits by 1-digit with exchanging</li> <li>Expanded written method</li> <li>Linking multiplication and division</li> <li>Dividing 2-digits by 1-digit with no exchanging</li> <li>Dividing 2-digits by 1-dgt with remainders</li> <li>How many ways?</li> <li>Mixed problem solving</li> </ul> <p><b>Unit 7: Length and Perimeter Measurement</b></p> <ul style="list-style-type: none"> <li>Measuring in m and cm</li> <li>Measuring in cm and mm</li> <li>Metres, centimetres and millimetres</li> <li>Equivalent lengths (m and cm)</li> <li>Equivalent lengths (mm and cm)</li> <li>Comparing lengths</li> <li>Adding lengths</li> <li>Subtracting lengths</li> <li>Measuring perimeter</li> <li>Calculating perimeter</li> <li>Problem solving involving length</li> </ul>	<p><b>Unit 8: Fractions- Part 1</b> <b>Numbers: Fractions</b></p> <ul style="list-style-type: none"> <li>Understand the denominator of unit fractions</li> <li>Compare and order unit fractions</li> <li>Understand the numerator of non-unit fractions</li> <li>Understand the whole</li> <li>Compare and order non-unit fractions</li> <li>Divisions on a number line</li> <li>Count in fractions on a number line</li> <li>Equivalent fractions as bar models</li> <li>Equivalent fractions on a number line</li> <li>Equivalent fractions</li> </ul> <p><b>Unit 9: Mass Measurement</b></p> <ul style="list-style-type: none"> <li>Using scales</li> <li>Measuring mass</li> <li>Measuring mass in kilograms and grams</li> <li>Equivalent masses</li> <li>Comparing mass</li> <li>Adding and subtracting mass</li> <li>Problem solving involving mass</li> </ul> <p><b>Unit 10: Capacity Measurement</b></p> <ul style="list-style-type: none"> <li>Measuring capacity and volume in litres and millilitres</li> <li>Measuring in litres and millilitres</li> </ul>	<p><b>Unit 11: Fractions- Part 2</b> <b>Numbers: Fractions</b></p> <ul style="list-style-type: none"> <li>Adding fractions</li> <li>Subtracting fractions</li> <li>Partition the whole</li> <li>Problem solving involving adding and subtracting fractions</li> <li>Using fractions of a set of objects</li> <li>Non-unit fractions of a set of objects</li> <li>Reasoning with fractions of a set of objects</li> <li>Reasoning with fractions of an amount</li> <li>Problem solving involving fractions of measures</li> </ul> <p><b>Unit 12: Money Measurement</b></p> <ul style="list-style-type: none"> <li>Pounds and pence</li> <li>Converting pounds and pence</li> <li>Adding money</li> <li>Subtracting money</li> <li>Finding change</li> </ul> <p><b>Unit 13: Time Measurement</b></p> <ul style="list-style-type: none"> <li>Roman numerals to 12</li> <li>Tell the time to 5 minutes</li> <li>Tell the time to the minute</li> <li>Read time on a digital clock</li> <li>Use am and pm</li> <li>Years, months and days</li> <li>Days and hours</li> </ul>	<p><b>Unit 14: Angles and Properties of shapes</b> (The remainder of this unit will be completed in Term 6) <b>Geometry- properties of shapes</b></p> <ul style="list-style-type: none"> <li>Turns and angles</li> <li>Right angles in shapes</li> <li>Comparing angles</li> <li>Measuring and drawing accurately</li> <li>Horizontal and vertical</li> <li>Parallel and perpendicular</li> <li>Recognising, drawing and describing 2D shapes</li> <li>Recognising and describing 3D shapes</li> <li>Making 3D shapes</li> </ul> <p><b>Unit 15: Statistics Statistics</b></p> <ul style="list-style-type: none"> <li>Interpreting pictograms</li> <li>Drawing pictograms</li> <li>Interpreting bar charts</li> <li>Collecting and representing data in a bar chart</li> <li>Simple two-way tables</li> </ul>

	<p><b>Unit 3: Addition and Subtraction- Part 2 (The remainder of this unit will be completed in Term 2)</b>  <b>Number: Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>• Add two numbers</li> <li>• Subtract two numbers</li> <li>• Add two numbers (across 10)</li> <li>• Add two numbers (across 100)</li> <li>• Subtract two numbers (across 10)</li> <li>• Subtract two numbers (across 100)</li> <li>• Add a 3-digit and 2-digit number</li> <li>• Subtract a 2-digit number from a 3-digit number</li> <li>• Complements to 100</li> <li>• Estimate numbers</li> <li>• Inverse operations</li> <li>• Problem Solving</li> </ul>	<ul style="list-style-type: none"> <li>• Divide by 3</li> <li>• The 3 times-table</li> <li>• Multiply by 4</li> <li>• Divide by 4</li> <li>• The 4 times-table</li> <li>• Multiple by 8</li> <li>• Divide by 8</li> <li>• The 8 times-table</li> <li>• Problem solving involving multiplication and division</li> <li>• Understanding divisibility</li> </ul>		<ul style="list-style-type: none"> <li>• Equivalent capacities and volumes (litres and millilitres)</li> <li>• Comparing capacity and volume</li> <li>• Adding and subtracting capacity and volume</li> <li>• Problem solving involving capacity</li> </ul>	<ul style="list-style-type: none"> <li>• Hours and minutes- start and end times</li> <li>• Hours and minutes- durations</li> <li>• Hours and minutes- comparing durations</li> <li>• Minutes and seconds</li> <li>• Solve problems with time</li> </ul> <p><b>Unit 14: Angles and Properties of shapes (The remainder of this unit will be completed in Term 6)</b>  <b>Geometry- properties of shapes</b></p> <ul style="list-style-type: none"> <li>• Turns and angles</li> <li>• Right angles in shapes</li> <li>• Comparing angles</li> <li>• Measuring and drawing accurately</li> <li>• Horizontal and vertical</li> <li>• Parallel and perpendicular</li> <li>• Recognising, drawing and describing 2D shapes</li> <li>• Recognising and describing 3D shapes</li> <li>• Making 3D shapes</li> </ul>	
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Year 4	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
<p style="text-align: center;"><b>Maths Unit</b></p>	<p><b>Unit 1: Place value- 4-digit Numbers- Part 1</b> <b>Number: Number and Place Value</b></p> <ul style="list-style-type: none"> <li>Represent and partition numbers to 1,000</li> <li>Number line to 1,000</li> <li>Multiples of 1,000</li> <li>4-digit numbers</li> <li>Partition 4-digit numbers flexibly</li> <li>1, 10, 100 and 1,000 more or less</li> <li>1,000s, 100s, 10s and 1s</li> </ul> <p><b>Unit 2: Place value- 4-digit numbers- Part 2</b> <b>Number: Number and Place Value</b></p> <ul style="list-style-type: none"> <li>Number line to 10,000</li> <li>Between two multiples</li> <li>Estimate on a number line to 10,000</li> <li>Compare and order numbers to 10,000</li> <li>Round to the nearest 1,000</li> <li>Round to the nearest 100</li> <li>Round to the nearest 10</li> <li>Round to the nearest 1,000, 100 or 10</li> </ul> <p><b>Unit 3: Addition and Subtraction (The remainder of this unit will be completed in Term 2)</b> <b>Number: Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>Adding and subtracting 1s, 10s, 100s, 1000s</li> </ul>	<p><b>Unit 3: Addition and Subtraction (The remainder of this unit will be completed in Term 2)</b> <b>Number: Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>Adding and subtracting 1s, 10s, 100s, 1000s</li> <li>Adding two 4-digit numbers with one exchange</li> <li>Add with more than one exchange</li> <li>Subtract two 4-digit numbers</li> <li>Subtract two 4-digit numbers with one exchange</li> <li>Subtract two 4-digit numbers with more than one exchange</li> <li>Exchange across two columns</li> <li>Efficient method</li> <li>Equivalent difference</li> <li>Estimating answers</li> <li>Checking strategies</li> <li>One step problem solving</li> <li>Problem solving involving comparison</li> <li>Two step problem solving</li> </ul> <p><b>Unit 4: Mass Measurement</b></p> <ul style="list-style-type: none"> <li>What is area?</li> <li>Measuring area using squares</li> </ul>	<p><b>Unit 6: Multiplication and Division- Part 2</b> <b>Number: Multiplication and Division</b></p> <ul style="list-style-type: none"> <li>Factor pairs</li> <li>Multiply and divide by 10</li> <li>Multiply and divide by 100</li> <li>Related facts for multiplication</li> <li>Related facts for division</li> <li>Multiply and add</li> <li>Informal written methods</li> <li>Multiply 2-digits by 1-digit</li> <li>Multiply 3 digits by 1 digit</li> <li>Solve multiplication problems</li> <li>Basic division</li> <li>Division and remainders</li> <li>Divide 2-digit numbers</li> <li>Divide 3-digit numbers</li> <li>Correspondence problems</li> <li>Efficient multiplication</li> </ul> <p><b>Unit 7: Length and Perimeter Measurement</b></p> <ul style="list-style-type: none"> <li>Measuring in km and m</li> <li>Perimeter on a grid</li> <li>Perimeters of a rectangles</li> <li>Perimeter if rectilinear shapes</li> </ul>	<p><b>Unit 8: Fractions- Part 1</b> <b>The remainder of this unit will be completed in Term 4)</b> <b>Number: Fractions</b></p> <ul style="list-style-type: none"> <li>Counting beyond 1</li> <li>Partitioning a mixed number</li> <li>Number lines with mixed numbers</li> <li>Comparing and ordering mixed numbers</li> <li>Converting mixed numbers to improper fractions</li> <li>Converting improper fractions to mixed numbers</li> <li>Equivalent fractions</li> <li>Equivalent fraction families</li> <li>Simplifying fractions</li> </ul> <p><b>Unit 9: Fractions- Part 2</b> <b>Number: Fractions (including decimals)</b></p> <ul style="list-style-type: none"> <li>Adding and subtracting two or more fractions</li> <li>Adding fractions and mixed numbers</li> <li>Subtracting from mixed numbers</li> <li>Subtracting from whole amounts</li> <li>Problem solving involving adding and subtracting fractions</li> <li>Fractions of an amount</li> <li>Problem solving involving fractions of amounts</li> </ul> <p><b>Unit 10: Decimals- Part 1</b></p>	<p><b>Unit 11: Decimals- Part 2</b> <b>Number: Fractions</b></p> <ul style="list-style-type: none"> <li>Making a whole</li> <li>Partitioning decimals</li> <li>Flexibly partitioning decimals</li> <li>Comparing decimals</li> <li>Ordering decimals</li> <li>Rounding to the nearest whole number</li> <li>Halves and quarters as decimals</li> </ul> <p><b>Unit 12: Money Measurement</b></p> <ul style="list-style-type: none"> <li>Writing money using decimal</li> <li>Converting between pounds and pence</li> <li>Comparing amounts of money</li> <li>Estimating with money</li> <li>Calculating with money</li> <li>Solving problems with money</li> </ul> <p><b>Unit 13: Time Measurement</b></p> <ul style="list-style-type: none"> <li>Years, months, weeks and days</li> <li>Hours, minutes and seconds</li> <li>Converting between analogue and digital times</li> <li>Converting to the 24 hour clock</li> </ul>	<p><b>Unit 14: Geometry- angles and 2D shapes</b> <b>Geometry- properties of shapes</b></p> <ul style="list-style-type: none"> <li>Identifying angles</li> <li>Comparing and ordering angles</li> <li>Triangles</li> <li>Quadrilaterals</li> <li>Polygons</li> <li>Reasoning about polygons</li> <li>Lines of symmetry</li> <li>Completing a symmetric figure</li> </ul> <p><b>Unit 15: Statistics</b> <b>Statistics</b></p> <ul style="list-style-type: none"> <li>Interpreting charts</li> <li>Solving problems involving charts</li> <li>Interpreting line graphs</li> <li>Drawing line graphs</li> </ul> <p><b>Unit 16: Geometry- position and direction</b> <b>Geometry- position and direction</b></p> <ul style="list-style-type: none"> <li>Describing position</li> <li>Describing position using coordinates</li> <li>Plot coordinates</li> <li>Draw 2D shapes on a grid</li> <li>Translating on a grid</li> <li>Describing translation on a grid</li> </ul>

	<ul style="list-style-type: none"> <li>• Adding two 4-digit numbers with one exchange</li> <li>• Add with more than one exchange</li> <li>• Subtract two 4-digit numbers</li> <li>• Subtract two 4-digit numbers with one exchange</li> <li>• Subtract two 4-digit numbers with more than one exchange</li> <li>• Exchange across two columns</li> <li>• Efficient method</li> <li>• Equivalent difference</li> <li>• Estimating answers</li> <li>• Checking strategies</li> <li>• One step problem solving</li> <li>• Problem solving involving comparison</li> <li>• Two step problem solving</li> </ul>	<ul style="list-style-type: none"> <li>• Counting squares</li> <li>• Making shapes</li> <li>• Comparing area</li> </ul> <p><b>Unit 5: Multiplication and Division- Part 1</b>  <b>Number: Multiplication and Division</b></p> <ul style="list-style-type: none"> <li>• Multiples of 3</li> <li>• Multiply and divide by 6</li> <li>• 6 times-table and division facts</li> <li>• Multiply and divide by 9</li> <li>• 9 times-table and division facts</li> <li>• The 3, 6 and 9 times-tables</li> <li>• Multiply and divide by 7</li> <li>• 7 times-table and division facts</li> <li>• 11 and 12 times-tables and division facts</li> <li>• Multiply by 1 and 0</li> <li>• Divide by 1 and itself</li> <li>• Multiply three numbers</li> </ul>	<ul style="list-style-type: none"> <li>• Find missing lengths in rectilinear shapes</li> <li>• Perimeters of polygons</li> </ul> <p><b>Unit 8: Fractions- Part 1</b> <b>The remainder of this unit will be completed in Term 4)</b>  <b>Number: Fractions</b></p> <ul style="list-style-type: none"> <li>• Counting beyond 1</li> <li>• Partitioning a mixed number</li> <li>• Number lines with mixed numbers</li> <li>• Comparing and ordering mixed numbers</li> <li>• Converting mixed numbers to improper fractions</li> <li>• Converting improper fractions to mixed numbers</li> <li>• Equivalent fractions</li> <li>• Equivalent fraction families</li> <li>• Simplifying fractions</li> </ul>	<p><b>Number: Fractions</b></p> <ul style="list-style-type: none"> <li>• Tenths as fractions</li> <li>• Tenths as decimals</li> <li>• Tenths on a place value grid</li> <li>• Tenths on a number line</li> <li>• Dividing 1 digit by 10</li> <li>• Hundredths as fractions</li> <li>• Dividing 2-digit by 10</li> <li>• Hundredths as fractions</li> <li>• Hundredths as a decimal</li> <li>• Hundredths on a place value grid</li> <li>• Divide 1 or 2 digit by 100</li> <li>• Divide by 10 and 100</li> </ul>	<ul style="list-style-type: none"> <li>• Problem solving involving converting units of time</li> </ul>	
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Year 5	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
<p style="text-align: center;"><b>Maths Unit</b></p>	<p><b>Unit 1: Place Value within 1,000,000- Part 1</b>  <b>Number: Number and place value</b></p> <ul style="list-style-type: none"> <li>Roman numerals</li> <li>Numbers to 10,000</li> <li>Numbers to 100,000</li> <li>Numbers to 1,000,000</li> <li>Read and write 5- and 6-digit numbers</li> <li>Powers of 10</li> <li>!0/100/1,000/10,000/100,000 more or less</li> <li>Partition numbers to 1,000,000</li> </ul> <p><b>Unit 2: Place Value within 1,000,000- Part 2</b>  <b>Number: Number and place value</b></p> <ul style="list-style-type: none"> <li>Number line to 1,000,000</li> <li>Compare and order numbers to 100,000</li> <li>Compare and order numbers to 1,000,000</li> <li>Round numbers to the nearest 100,000</li> <li>Round numbers to the nearest 10,000</li> <li>Round numbers to the nearest 10, 100 and 1,000</li> </ul> <p><b>Unit 3: Addition and Subtraction</b>  <b>Number: Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>Mental strategies for addition</li> <li>Mental strategies for subtraction</li> <li>Add whole numbers with more than 4 digits</li> <li>Subtract whole numbers with more than 4 digits</li> <li>Round to check answers</li> <li>Inverse operations- addition and subtraction</li> </ul>	<p><b>Unit 4: Multiplication and Division- Part 1</b>  <b>Number: Multiplication and Division</b></p> <ul style="list-style-type: none"> <li>Multiples</li> <li>Common multiples</li> <li>Factors</li> <li>Common factors</li> <li>Prime numbers</li> <li>Square numbers</li> <li>Cube numbers</li> <li>Multiply by 10, 100 and 1,000</li> <li>Divide by 10, 100 and 1,000</li> <li>Multiples of 10, 100 and 1,000</li> </ul> <p><b>Unit 5: Fractions- Part 1</b>  <b>Number: Fractions (including decimals and percentages)</b></p> <ul style="list-style-type: none"> <li>Equivalent fractions</li> <li>Equivalent fractions- unit and non-unit fractions</li> <li>Families of equivalent fractions</li> <li>Mixed numbers to improper fractions</li> <li>Comparing fractions less than 1</li> <li>Ordering fractions less than 1</li> <li>Compare and order fractions greater than 1</li> </ul> <p><b>Unit 6: Fractions- Part 2</b>  <b>Number: Fractions (including decimals and percentages)</b></p>	<p><b>Unit 7: Multiplication and Division- Part 2</b>  <b>Number: Multiplication and Division</b></p> <ul style="list-style-type: none"> <li>Multiplying numbers up to 4-digits by a 1-digit number</li> <li>Multiplying 2-digit numbers using the area model</li> <li>Multiply 2-digit numbers</li> <li>Multiply a 3-digit number by a 2-digit number</li> <li>Dividing up to a 4-digit number by a 1-digit number</li> <li>Division with remainders</li> <li>Efficient division</li> <li>Problem solving involving multiplication and division</li> </ul> <p><b>Unit 8: Fractions- Part 3</b>  <b>Number: Fractions (including decimals and percentages)</b></p> <ul style="list-style-type: none"> <li>Multiply unit fractions by an integer</li> <li>Multiply non-unit fractions by an integer</li> <li>Multiply mixed numbers by integers</li> <li>Fractions of an amount</li> <li>Finding the whole</li> <li>Using fractions as operators</li> </ul> <p><b>Unit 9: Decimals and Percentages (The remainder of this unit will be completed in Term 4)</b>  <b>Fractions (including decimals and percentages)</b></p>	<p><b>Unit 9: Decimals and Percentages (The remainder of this will be completed in Term 4)</b>  <b>Fractions (including decimals and percentages)</b></p> <ul style="list-style-type: none"> <li>Write decimals up to 2 decimal places that are less than 1</li> <li>Write decimals up to 2 decimal places that are greater than 1</li> <li>Equivalent fractions and decimals- tenths</li> <li>Equivalent fractions and decimals- hundredths</li> <li>Equivalent fractions and decimals</li> <li>Thousandths as fractions</li> <li>Thousandths as decimals</li> <li>Thousandths on a place value grid</li> <li>Compare and order decimals with the same number of decimal places</li> <li>Round to the nearest whole number</li> <li>Round to one decimal place</li> <li>Understand Percentages</li> <li>Percentages as fractions and decimals</li> <li>Equivalent fractions, decimals and percentages</li> </ul> <p><b>Unit 10: Perimeter and Area Measurement</b></p>	<p><b>Unit 12: Geometry- properties of shapes</b>  <b>Geometry- properties of shapes</b></p> <ul style="list-style-type: none"> <li>Understanding and using degrees</li> <li>Measuring acute angles</li> <li>Measuring angles up to 180°</li> <li>Drawing lines and angles accurately</li> <li>Calculating angles around a point</li> <li>Calculating angles on a straight line</li> <li>Lengths and angles in shape</li> <li>Regular and irregular polygons</li> <li>Parallel lines</li> <li>Perpendicular lines</li> <li>Investigate lines</li> <li>3D shapes</li> </ul> <p><b>Unit 13: Geometry- position and Direction</b>  <b>Geometry- position and direction</b></p> <ul style="list-style-type: none"> <li>Read and plot coordinates</li> <li>Problem solving with coordinates</li> <li>Translating shapes</li> <li>Translating points</li> <li>Reflection</li> <li>Reflection in horizontal and vertical lines</li> </ul>	<p><b>Unit 14: Decimals (The remainder of this unit will be completed in Term 6)</b>  <b>Number: Fractions (including decimals and percentages)</b></p> <ul style="list-style-type: none"> <li>Adding and subtracting decimals within 1</li> <li>Complements to 1</li> <li>Adding and subtracting decimals across 1</li> <li>Adding decimals with the same number of decimal places</li> <li>Subtracting decimals with the same number of decimal places</li> <li>Add decimals with a different number of decimal places</li> <li>Subtract decimals with a different number of decimal places</li> <li>Problem solving with decimals</li> <li>Decimal sequences</li> <li>Multiplying by 10</li> <li>Multiplying by 10, 100 and 1,000</li> <li>Dividing by 10</li> <li>Dividing by 10, 100 and 1,000</li> </ul> <p><b>Unit 15: Negative Numbers</b>  <b>Number: Number and place value</b></p>

	<ul style="list-style-type: none"> <li>• Multi-step problems involving addition and subtraction</li> <li>• Solving missing number problems</li> <li>• Solving comparison problems</li> </ul>	<ul style="list-style-type: none"> <li>• Add and subtract fractions</li> <li>• Add fractions within 1</li> <li>• Add fractions with a total greater than 1</li> <li>• Add to a mixed number</li> <li>• Add two mixed numbers</li> <li>• Subtract fractions within 1</li> <li>• Subtract from a mixed number</li> <li>• Subtract from a mixed number-breaking the whole</li> <li>• Subtract two mixed numbers</li> <li>• Solve fraction problems</li> <li>• Solve multi-step fraction problems</li> </ul>	<ul style="list-style-type: none"> <li>• Write decimals up to 2 decimal places that are less than 1</li> <li>• Write decimals up to 2 decimal places that are greater than 1</li> <li>• Equivalent fractions and decimals- tenths</li> <li>• Equivalent fractions and decimals- hundredths</li> <li>• Equivalent fractions and decimals</li> <li>• Thousandths as fractions</li> <li>• Thousandths as decimals</li> <li>• Thousandths on a place value grid</li> <li>• Compare and order decimals with the same number of decimal places</li> <li>• Round to the nearest whole number</li> <li>• Round to one decimal place</li> <li>• Understand</li> <li>• Percentages</li> <li>• Percentages as fractions and decimals</li> <li>• Equivalent fractions, decimals and percentages</li> </ul>	<ul style="list-style-type: none"> <li>• Perimeter of rectangles</li> <li>• Perimeter of rectilinear shapes</li> <li>• Perimeter of polygons</li> <li>• Areas of rectangles</li> <li>• Area of compound shapes</li> <li>• Estimating area</li> </ul> <p><b>Unit 11: Graphs and Tables Statistics</b></p> <ul style="list-style-type: none"> <li>• Drawing line graphs</li> <li>• Reading and interpreting line graphs</li> <li>• Read and interpret tables</li> <li>• Two-way tables</li> <li>• Timetables</li> </ul>	<p><b>Unit 14: Decimals (The remainder of this unit will be completed in Term 6)</b>  <b>Number: Fractions (including decimals and percentages)</b></p> <ul style="list-style-type: none"> <li>• Adding and subtracting decimals within 1</li> <li>• Complements to 1</li> <li>• Adding and subtracting decimals across 1</li> <li>• Adding decimals with the same number of decimal places</li> <li>• Subtracting decimals with the same number of decimal places</li> <li>• Add decimals with a different number of decimal places</li> <li>• Subtract decimals with a different number of decimal places</li> <li>• Problem solving with decimals</li> <li>• Decimal sequences</li> <li>• Multiplying by 10</li> <li>• Multiplying by 10, 100 and 1,000</li> <li>• Dividing by 10</li> <li>• Dividing by 10, 100 and 1,000</li> </ul>	<ul style="list-style-type: none"> <li>• Understanding negative numbers</li> <li>• Counting through zero</li> <li>• Comparing and ordering negative numbers</li> <li>• Finding the difference</li> </ul> <p><b>Unit 16: Measure-converting units Measurement</b></p> <ul style="list-style-type: none"> <li>• Kilograms and kilometres</li> <li>• Millimetres and millilitres</li> <li>• Converting units of length</li> <li>• Imperial units of length</li> <li>• Imperial units of mass</li> <li>• Imperial units of capacity</li> <li>• Converting units of time</li> <li>• Timetables-calculating</li> <li>• Problem solving involving units of measure</li> </ul> <p><b>Unit 16: Measure-volume and capacity Measurement</b></p> <ul style="list-style-type: none"> <li>• Cubic centimetres</li> <li>• Comparing volumes</li> <li>• Estimating volume</li> </ul>
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Year 6	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
<p style="text-align: center;"><b>Maths Unit</b></p>	<p><b>Unit 1: Place value within 10,000,000</b>  <b>Number: Number and place value</b></p> <ul style="list-style-type: none"> <li>Numbers to 1,000,000</li> <li>Numbers to 10,000,000</li> <li>Partitioning numbers to 10,000,000</li> <li>Powers of 10</li> <li>Number line to 10,000,000</li> <li>Comparing and ordering any number</li> <li>Rounding numbers</li> <li>Negative numbers</li> </ul> <p><b>Unit 2: Four Operations- Part 1</b>  <b>Number: addition, subtraction, multiplication and division</b></p> <ul style="list-style-type: none"> <li>Adding integers</li> <li>Subtracting integers</li> <li>Problem solving using addition and subtraction</li> <li>Common factors</li> <li>Common multiples</li> <li>Rules of divisibility</li> <li>Primes to 100</li> <li>Squares and cubes</li> </ul> <p><b>Unit 3: Four Operations- Part 2 (The remainder of this unit will be completed in Term 2)</b>  <b>Number: addition, subtraction, multiplication and division</b></p> <ul style="list-style-type: none"> <li>Multiply by a 1-digit number</li> </ul>	<p><b>Unit 3: Four Operations- Part 2 (The remainder of this unit will be completed in Term 2)</b>  <b>Number: addition, subtraction, multiplication and division</b></p> <ul style="list-style-type: none"> <li>Multiply by a 1-digit number</li> <li>Multiply up to a 4-digit number by a 2-digit number</li> <li>Short division</li> <li>Division using factors</li> <li>Divide a 3-digit number by 2-digit using long division</li> <li>Divide a 4-digit number by 2-digit using long division</li> <li>Long division with remainders</li> <li>Order of operations</li> <li>Brackets</li> <li>Mental calculations</li> <li>Reasoning from known facts</li> </ul> <p><b>Unit 4: Fractions- Part 1</b>  <b>Number: Fractions</b></p> <ul style="list-style-type: none"> <li>Equivalent and simplifying fractions</li> <li>Equivalent fractions on a number line</li> <li>Comparing and ordering fractions</li> <li>Adding and subtracting simple fractions</li> <li>Adding and subtracting any two fractions</li> </ul>	<p><b>Unit 7: Ratio and Proportion</b>  <b>Ratio and Proportion</b></p> <ul style="list-style-type: none"> <li>Using ratio language</li> <li>Introducing the ratio symbol</li> <li>Using ratio</li> <li>Scale drawing</li> <li>Scale factors</li> <li>Similar shapes</li> <li>Ratio problems</li> <li>Problem solving involving ratio and proportion</li> </ul> <p><b>Unit 8: Algebra</b>  <b>Algebra</b></p> <ul style="list-style-type: none"> <li>Finding a rule- one step</li> <li>finding a rule- two step</li> <li>Form expressions</li> <li>Substitution</li> <li>Formulae</li> <li>Form and solve equations</li> <li>Solve one-step equations</li> <li>Solve two=step equations</li> <li>Find pairs of values</li> <li>Solving problems with two unknowns</li> </ul> <p><b>Unit 9: Decimals (The remainder of this unit will be completed in Term 4)</b>  <b>Fractions (including decimals and percentages)</b></p> <ul style="list-style-type: none"> <li>Place value to 3 decimal places</li> <li>Rounding decimals</li> <li>Adding and subtracting decimals</li> <li>Multiplying by 10, 100 and 1,000</li> <li>Dividing by 10, 100 and 1,000</li> </ul>	<p><b>Unit 9: Decimals (The remainder of this unit will be completed in Term 4)</b>  <b>Fractions (including decimals and percentages)</b></p> <ul style="list-style-type: none"> <li>Place value to 3 decimal places</li> <li>Rounding decimals</li> <li>Adding and subtracting decimals</li> <li>Multiplying by 10, 100 and 1,000</li> <li>Dividing by 10, 100 and 1,000</li> <li>Multiplying decimals by integers</li> <li>Dividing decimals by integers</li> <li>Fractions to decimals</li> <li>Fractions as division</li> </ul> <p><b>Unit 10: Percentages</b>  <b>Fractions (including decimals and percentages)</b></p> <ul style="list-style-type: none"> <li>Understanding percentages</li> <li>Fractions to percentages</li> <li>Equivalent fractions, decimals and percentages</li> <li>Ordering fractions, decimals and percentages</li> <li>Simple percentage of an amount</li> <li>Percentages of an amount- 1%</li> <li>Percentages of an amount</li> <li>Percentages including missing values</li> </ul>	<p><b>Unit 12: Statistics</b>  <b>Statistics</b></p> <ul style="list-style-type: none"> <li>Interpreting line graphs</li> <li>Drawing line graphs</li> <li>Advanced bar charts</li> <li>Understanding and completing pie charts</li> <li>Reading and interpreting pie charts</li> <li>Pie charts and fractions</li> <li>Pie charts and percentages</li> <li>Introduction to the mean</li> <li>Calculating the mean</li> <li>Problem solving involving the mean</li> </ul> <p><b>Unit 13: Geometry- properties of shapes</b>  <b>Geometry- properties of shapes</b></p> <ul style="list-style-type: none"> <li>Measuring and classifying angles</li> <li>Vertically opposite angles</li> <li>Angles in a triangle</li> <li>Angles in a triangle- missing angles</li> <li>Angles in a triangle- special cases</li> <li>Angels in a quadrilateral</li> <li>Angles in polygons</li> <li>Circles</li> <li>Parts of a circle</li> <li>Drawing shapes accurately</li> <li>Nets of 3D shapes</li> </ul>	<p><b>Unit 14: Problem Solving</b>  <b>(The remainder of this unit will be completed in Term 6)</b>  <b>Number: Number and place value</b></p> <ul style="list-style-type: none"> <li>Problem solving - place value</li> <li>Problem solving – negative numbers</li> <li>Problem solving – addition and subtraction</li> <li>Problem solving – four operations</li> <li>Problem solving – fractions</li> <li>Problem solving – decimals</li> <li>Problem solving – percentages</li> <li>Problem solving – ratio and proportion</li> <li>Problem solving – time</li> <li>Problem solving – position and direction</li> <li>Problem Solving- properties of shapes</li> </ul> <p style="text-align: center;"><b>CONSOLIDATION AND SATS PREP</b></p>



	<ul style="list-style-type: none"> <li>• Multiply up to a 4-digit number by a 2-digit number</li> <li>• Short division</li> <li>• Division using factors</li> <li>• Divide a 3-digit number by 2-digit using long division</li> <li>• Divide a 4-digit number by 2-digit using long division</li> <li>• Long division with remainders</li> <li>• Order of operations</li> <li>• Brackets</li> <li>• Mental calculations</li> <li>• Reasoning from known facts</li> </ul>	<ul style="list-style-type: none"> <li>• Adding mixed numbers</li> <li>• Subtracting mixed numbers</li> <li>• Multi-step problems involving fractions</li> <li>• Problem solving involving adding and subtracting fractions</li> </ul> <p><b>Unit 5: Fractions- Part 2</b> <b>Number: Fractions</b></p> <ul style="list-style-type: none"> <li>• Multiplying a fraction by integers</li> <li>• Multiplying a fraction by a fraction</li> <li>• Dividing a fraction by an integer</li> <li>• Mixed questions with fractions</li> <li>• Fractions of an amount</li> <li>• Fractions of amounts- find the whole</li> </ul> <p><b>Unit 6: Measure- imperial and metric measures</b> <b>Measurement</b></p> <ul style="list-style-type: none"> <li>• Metric measures</li> <li>• Converting metric measures</li> <li>• Calculating with metric measures</li> <li>• Miles and Km</li> <li>• Imperial measures</li> </ul>	<ul style="list-style-type: none"> <li>• Multiplying decimals by integers</li> <li>• Dividing decimals by integers</li> <li>• Fractions to decimals</li> <li>• Fractions as division</li> </ul>	<p><b>Unit 11: Measure- perimeter, area and volume</b> <b>Measurement</b></p> <ul style="list-style-type: none"> <li>• Shapes with the same area</li> <li>• Area and perimeter</li> <li>• Area and perimeter- missing lengths</li> <li>• Area of a triangle- counting squares</li> <li>• Area of a right- angled triangle</li> <li>• Area of any triangle</li> <li>• Area of a parallelogram</li> <li>• Problem solving involving area</li> <li>• Problem solving involving perimeter</li> <li>• Volume- counting cubes</li> <li>• Volume of a cuboid</li> </ul>	<p><b>Unit 14: Geometry- Position and Direction</b> <b>Geometry: Position and Direction</b></p> <ul style="list-style-type: none"> <li>• The first quadrant</li> <li>• Reading and plotting points in the four quadrants</li> <li>• Translation</li> <li>• Reflections</li> <li>• Solving problems involving coordinates</li> </ul> <p><b>Unit 15: Problem Solving</b> <b>(The remainder of this unit will be completed in Term 6)</b> <b>Number: Number and place value</b></p> <ul style="list-style-type: none"> <li>• Problem solving -place value</li> <li>• Problem solving – negative numbers</li> <li>• Problem solving – addition and subtraction</li> <li>• Problem solving – four operations</li> <li>• Problem solving – fractions</li> <li>• Problem solving – decimals</li> <li>• Problem solving – percentages</li> <li>• Problem solving – ratio and proportion</li> <li>• Problem solving – time</li> <li>• Problem solving – position and direction</li> </ul>	
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