

Mathematics  
Scheme of work  
First Term  
2008

Week	Date	Mental Maths	Pages	Syllabus Aim	Objectives	Activities	Assessment	Teaching Aids
First Week	13 <sup>th</sup> January to 17 <sup>th</sup> January	To be able to say their 2 times table randomly and in order	Pages 1 to 4	Numbers	<ul style="list-style-type: none"> <li>➤ To be able to write Arabic numbers</li> <li>➤ To be able to write numbers using roman numerals</li> </ul>	<ul style="list-style-type: none"> <li>★ Making number cards</li> <li>★ Play counting games: the change game, circle game, stop start, counting around in groups and tables tennis</li> <li>★ Use whiteboards for 'show me' activities</li> <li>★ Paired work: one child says a number and the other writes</li> <li>★ Write their own telephone number, the date and their ages in roman numerals</li> <li>★ To write important numbers using Arabic and roman numerals</li> </ul> <p><b>MENTAL MATHS ACTIVITIES</b></p> <ul style="list-style-type: none"> <li>★ Disappearing tables</li> <li>★ 'Show me'</li> <li>★ Number salad</li> <li>★ Circle games</li> <li>★ Relay race</li> <li>★ Change game</li> <li>★ Ping pong/ tables tennis</li> <li>★ Clap click</li> </ul>	<p>Can write Arabic numbers</p> <p>Can write numbers using roman numerals</p>	<p>Whiteboards</p> <p>Cards for numbers</p>

Week	Date	Mental Maths	Pages	Syllabus Aim	Objectives	Activities	Assessment	Teaching Aids
Second Week	20 <sup>th</sup> January to 24 <sup>th</sup> January	To know their 3 times table by heart and randomly	Pages 8 to 12	Numbers	<ul style="list-style-type: none"> <li>➤ To be able to write numbers in words</li> <li>➤ To be able to order numbers into size order</li> <li>➤ To be able to use the symbols <math>&lt;</math> <math>&gt;</math> <math>=</math> to show relationships</li> <li>➤ To understand and use the value one lakh</li> <li>➤ To understand the value of digits upto one lakh</li> </ul>	<ul style="list-style-type: none"> <li>★ Use a place value grid- identify the value of the missing number or identify the value of the digit</li> <li>★ Say a number and the children write</li> <li>★ Paired practise where one says a number and the other children write</li> <li>★ Give dice to make 6 digit numbers- write the value in figures or words</li> <li>★ Spelling activities</li> <li>★ The teacher says a number and the children must write- especially those with place holder 0</li> </ul> <p><b>MENTAL MATHS ACTIVITIES</b></p> <ul style="list-style-type: none"> <li>★ Change game</li> <li>★ Chasing diamonds</li> <li>★ Dice game- give the children a die and ask them to roll and say what the number is multiplied by 3</li> <li>★ Gunfighter</li> <li>★ Running game</li> </ul>	<p>Can write numbers in words</p> <p>Can order numbers into size order</p> <p>Can use <math>&gt;</math> <math>&lt;</math> <math>=</math> to show relationships</p> <p>Understand the value of a lakh</p> <p>To understand the value of digits up to one lakh</p>	<p>Whiteboards</p> <p>Dice</p>

Week	Date	Mental Maths	Pages	Syllabus Aim	Objectives	Activities	Assessment	Teaching Aids
Third Week	27 <sup>th</sup> January to 31 <sup>st</sup> January	To know their 4 times table randomly and in order	Pages 13 to 16	Numbers	<ul style="list-style-type: none"> <li>➤ To recognize odd and even numbers from their concluding digit</li> <li>➤ To be able to complete number sequences</li> <li>➤ To be able to solve number problems</li> </ul>	<ul style="list-style-type: none"> <li>★ To arrange numbers into size order</li> <li>★ To write their own numbers and order these</li> <li>★ Colour number square to show patterns</li> <li>★ Identify the ending number that indicates if a number is odd or even</li> <li>★ Finish number sequences and write their own number sequences</li> <li>★ To be able to solve and write their own number problems</li> </ul> <p><b>MENTAL MATHS ACTIVITIES</b></p> <ul style="list-style-type: none"> <li>★ Stop start</li> <li>★ Treasure hunt using digit cards that the children can multiply by 4</li> <li>★ Relay race</li> <li>★ Running game</li> <li>★ Frog in a box</li> <li>★ Change game</li> <li>★ Counting in multiples, in groups, between groups and between the class and the teacher</li> </ul>	<p>Can recognize odd and even numbers</p> <p>Can complete number sequences</p> <p>Can solve number problems</p>	Number cards

Week	Date	Mental Maths	Pages	Syllabus Aim	Objectives	Activities	Assessment	Teaching Aids
Fourth Week	3rd <sup>th</sup> January to 7 <sup>th</sup> February	To know their five times table randomly and in order	Pages 17 to 21	Addition	<ul style="list-style-type: none"> <li>➤ To be able to add three numbers</li> <li>➤ To be able to add multiple numbers using an appropriate strategy</li> </ul>	<ul style="list-style-type: none"> <li>★ Teach the children to count on in their heads</li> <li>★ Teach the children to partition numbers and add in their heads</li> <li>★ Write numbers on a whiteboard- turn three and add</li> <li>★ Teach to look for number bonds they know to make adding easier</li> <li>★ Paired work- one writes and the other answers</li> <li>★ Timed work</li> <li>★ Make up their own report cards for a friend or teacher</li> </ul> <p><b>MENTAL MATHS ACTIVITIES</b></p> <ul style="list-style-type: none"> <li>★ Chasing game</li> <li>★ Beat the teacher</li> <li>★ Clap click</li> <li>★ Tables tennis</li> <li>★ Look for number patterns</li> <li>★ Frog in a box</li> <li>★ Fizz buzz</li> </ul>	<p>Can add three numbers</p> <p>Can add multiple numbers and choose an appropriate strategy</p> <p>ASSESSMENT</p>	Whiteboards

Week	Date	Mental Maths	Pages	Syllabus Aim	Objectives	Activities	Assessment	Teaching Aids
Fifth Week	10 <sup>th</sup> February to 14 <sup>th</sup> February	To be able to say their 2, 3, 4 and 5 times table	Pages 22 to 30	Addition and Subtraction	<ul style="list-style-type: none"> <li>➤ To be able to add multiple numbers</li> <li>➤ To be able to subtract using regrouping</li> <li>➤</li> </ul>	<ul style="list-style-type: none"> <li>★ Write their own report cards for themselves, a friend or a teacher</li> <li>★ Write their own word problems and use for a quiz</li> <li>★ Translate word problems into dhivehi</li> <li>★ Teach the children to count back mentally in tens and ones</li> <li>★ Teach the children how to regroup</li> <li>★ Use a place value chart to teach regrouping</li> <li>★ Evaluate sums and chose whether to answer mentally or with a written sum</li> </ul> <p><b>MENTAL MATHS ACTIVITIES</b></p> <ul style="list-style-type: none"> <li>★ Gunfighter</li> <li>★ Paired work</li> <li>★ Ping pong/ tables tennis</li> <li>★ Guess my rule</li> <li>★ Fizz buzz</li> <li>★ Circle games</li> <li>★ Moving lines</li> <li>★ Thumbs up thumbs down</li> </ul>	<p>Can add multiple numbers</p> <p>Can subtract using regrouping</p>	Place value charts

Week	Date	Mental Maths	Pages	Syllabus Aim	Objectives	Activities	Assessment	Teaching Aids
Sixth Week	17 <sup>th</sup> February to 21 <sup>st</sup> February	To be able to recall their six times table in order	Pages 31 to 34	Addition and Subtraction	<ul style="list-style-type: none"> <li>➤ To be able to do multi-step sums using addition and subtraction</li> <li>➤</li> </ul>	<ul style="list-style-type: none"> <li>★ Discuss the order in which to undertake multi-step problems</li> <li>★ Identify larger and smaller numbers in order to select the correct order</li> <li>★ Look at how to use inverses to check their work</li> <li>★ Teach the children how to estimate in order to check their work</li> </ul> <p><b>MENTAL MATHS ACTIVITIES</b></p> <ul style="list-style-type: none"> <li>★ Disappearing tables</li> <li>★ Chasing diamonds</li> <li>★ Chasing game</li> <li>★ Dice game- give to dice and the children must roll and multiply to two numbers together</li> <li>★ Fizz Buzz</li> <li>★ Number salad</li> </ul>	<p>ASSESSMENT ADDITION AND SUBTRACTIO N</p> <p>Can do multi- operation sums</p>	

Week	Date	Mental Maths	Pages	Syllabus Aim	Objectives	Activities	Assessment	Teaching Aids
Seventh Week	24 <sup>th</sup> February to 28 <sup>th</sup> February	To know their six times table randomly and in order	Pages 84 - 87	Geometry	<ul style="list-style-type: none"> <li>➤ To be able to name all the triangles and their properties</li> <li>➤ To be able to recognize all the common quadrilaterals and their properties</li> </ul>	<ul style="list-style-type: none"> <li>★ Match the triangles with their properties</li> <li>★ Cut out the correct triangles</li> <li>★ Describe the shapes using their properties</li> <li>★ Play guess my shape</li> <li>★ In pairs one child describes a shape while the other child draws</li> <li>★ Make shape pictures and label the shapes</li> <li>★ Use tangams and make tangram pictures</li> <li>★ Exploring shapes</li> <li>★ Matching cards for quadrilaterals</li> </ul> <p><b>MENTAL MATHS ACTIVITIES</b></p> <ul style="list-style-type: none"> <li>★ Beat the teacher</li> <li>★ Change game</li> <li>★ Cross and noughts</li> <li>★ Fizz buzz</li> <li>★ Frog in a box</li> <li>★ Relay race</li> <li>★ Gunfighter</li> </ul>	<p>Can name all the triangles and their properties</p> <p>Can name all the quadrilaterals and their properties</p> <p><b>ASSESSMENT</b></p>	Whiteboards



Week	Date	Mental Maths	Pages	Syllabus Aim	Objectives	Activities	Assessment	Teaching Aids
Eighth Week	2 <sup>nd</sup> March to 6 <sup>th</sup> March	To be able to recall their seven times table in order	Pages 89 to 93	Angles	<ul style="list-style-type: none"> <li>➤ To be able to label angles</li> <li>➤ To be able to recognize and name right, acute and obtuse angles</li> <li>➤ To be able to measure angles within 5 degrees of accuracy</li> </ul>	<ul style="list-style-type: none"> <li>★ Making words by labeling the angles</li> <li>★ Write angles messages- eg their name or a greeting</li> <li>★ Estimating and measuring angles</li> <li>★ Estimating and showing acute, obtuse and right angles using their arm or a compass</li> <li>★ Show me with the whiteboards for answers and drawing angles</li> <li>★ Guessing angles and then checking using a protractor</li> </ul> <p><b>MENTAL MATHS ACTIVITIES</b></p> <ul style="list-style-type: none"> <li>★ Disappearing tables</li> <li>★ Counting in multiples of seven in groups, between groups</li> <li>★ Tables tennis</li> <li>★ Quiz</li> <li>★ True or false</li> <li>★ Line game</li> <li>★ Running game</li> </ul>	<p>Can label angles</p> <p>Can recognize and name Right, acute and obtuse angles</p> <p>Can measure angles to within 5 degrees</p>	<p>Whiteboards</p> <p>Compasses</p> <p>Protractors</p>

Week	Date	Mental Maths	Pages	Syllabus Aim	Objectives	Activities	Assessment	Teaching Aids
Ninth Week	10 <sup>th</sup> March to 13 <sup>th</sup> March	To know their seven times table randomly and in order	Pages 94 to 99	Angles	<ul style="list-style-type: none"> <li>➤ To be able to draw an angle within 5 degrees of accuracy</li> <li>➤ To be able to draw bisecting lines using a compass</li> <li>➤ To be able to draw triangles accurately using a compass</li> </ul>	<ul style="list-style-type: none"> <li>★ Discuss how to use the scale and common mistakes</li> <li>★ Draw triangles and measure their angles</li> <li>★ Make flags by bisecting at 90 degrees</li> <li>★ Make a square, a rhombus and a triangle by using bisecting lines</li> <li>★ Write instructions for someone else to draw a triangle and swap</li> </ul> <p><b>MENTAL MATHS ACTIVITIES</b></p> <ul style="list-style-type: none"> <li>★ Disappearing tables</li> <li>★ Chasing diamonds</li> <li>★ Chasing game</li> <li>★ Dice game- give to dice and the children must roll and multiply to two numbers together</li> <li>★ Fizz Buzz</li> </ul> <p>Number salad</p>	<p>ASSESSMENT</p> <p>Can draw angles within 5 degrees of accuracy</p> <p>Can draw bisecting lines with a compass</p> <p>Can draw triangles with a compass</p>	<p>Protractor</p> <p>Compass</p>

# Mid-Term Break

Week	Date	Mental Maths	Pages	Syllabus Aim	Objectives	Activities	Assessment	Teaching Aids
Tenth Week	23 <sup>rd</sup> March to 27 <sup>th</sup> March	To be able to recall their eight times table in order	Pages 102 to 110	Graphs	<ul style="list-style-type: none"> <li>➤ To be able to read information from a graph and make judgements about what it tells us</li> <li>➤ To be able to label a graph correctly</li> <li>➤ To be able to draw a graph accurately</li> </ul>	<ul style="list-style-type: none"> <li>★ To make their own graphs by collecting data</li> <li>★ Collect data on unit test marks</li> <li>★ Collect data on hours of sunlight, age and height, age and weight</li> <li>★ Discuss and select scales with different intervals</li> </ul> <p><b>MENTAL MATHS ACTIVITIES</b></p> <ul style="list-style-type: none"> <li>★ Disappearing tables</li> <li>★ Chasing diamonds</li> <li>★ Chasing game</li> <li>★ Dice game- give to dice and the children must roll and multiply to two numbers together</li> <li>★ Fizz Buzz</li> </ul> <p>Number salad</p>	<p><b>ASSESSMENT</b></p> <p>Can read information from a graph and make judgements about what it tells us</p> <p>Can label a graph correctly</p> <p>Can draw a graph accurately</p>	Graph paper

Week	Date	Mental Maths	Pages	Syllabus Aim	Objectives	Activities	Assessment	Teaching Aids
Eleventh Week	30 <sup>th</sup> March to 3 <sup>rd</sup> April	To know their 2 and 3 times table in order and randomly	Pages 38 - 43	Multiplication	<ul style="list-style-type: none"> <li>➤ To be able to identify multiples of a given number</li> <li>➤ To be able to continue sequences</li> <li>➤ To be able to problem solve with multiples of a number</li> <li>➤ To be able to use a written sum to solve multiplication problems</li> </ul>	<ul style="list-style-type: none"> <li>★ Explain multiples and ask the children to name all the multiples of 2 and 3</li> <li>★ Sequences- the teacher starts a sequence and the children must finish</li> <li>★ Use whiteboards for paired and group work</li> <li>★ Paired work- one child writes a sum and the other solves</li> <li>★ Hidden pairs with multiples</li> <li>★ Model problem solving</li> <li>★ Use place value grids to illustrate regrouping</li> <li>★ Treasure hunt</li> </ul> <p>MENTAL MATHS</p> <ul style="list-style-type: none"> <li>★ Fizz Buzz</li> <li>★ Number Salad</li> <li>★ Gunfighter</li> <li>★ Ping Pong</li> <li>★ Chasing Diamonds</li> <li>★ Clap click</li> <li>★ Paired work- one says a sum and the other gives the answer</li> <li>★ Disappearing tables</li> <li>★ Dice game</li> </ul>	<p>Can identify multiples of a given number</p> <p>Can continue sequences</p> <p>Can problem solve with multiples of a number</p> <p>Can use a written sum to solve multiplication problems</p>	<p>Whiteboards</p> <p>Matching cards</p> <p>Sum cards</p> <p>Dice</p>

Week	Date	Mental Maths	Pages	Syllabus Aim	Objectives	Activities	Assessment	Teaching Aids
Twelfth Week	6 <sup>th</sup> April to 10 <sup>th</sup> April	To know their 4 and 5 times table randomly and in order	Pages 44 - 49	Multiplication	<ul style="list-style-type: none"> <li>➤ To be able to use a written sum to multiply any number by a single digit</li> <li>➤ To be able to multiply by a double digit using a written sum</li> </ul>	<ul style="list-style-type: none"> <li>★ Show jumping digits- show the children how to multiply by ten by giving them number cards and asking them to jump up the columns placing 0's in the correct place</li> <li>★ Model written sums</li> <li>★ Whiteboards for show me</li> <li>★ Whiteboards for paired work- one child writes a sum and the other solves</li> <li>★ Have a quiz</li> <li>★ Use place value grids to teach regrouping</li> <li>★ Play collecting sums</li> <li>★ Give four digit number cards and dice to make their own sums</li> </ul> <p>MENTAL MATHS</p> <ul style="list-style-type: none"> <li>★ Fizz Buzz</li> <li>★ Number Salad</li> <li>★ Gunfighter</li> <li>★ Ping Pong</li> <li>★ Chasing Diamonds</li> <li>★ Clap click</li> <li>★ Paired work- one says a sum and the other gives the answer</li> <li>★ Disappearing tables</li> <li>★ Dice game</li> </ul>	<p>Can use a written sum to multiply any number by a single digit</p> <p>Can multiply by a double digit using a written sum</p>	<p>Number cards</p> <p>Whiteboards</p> <p>Dice</p> <p>Diamond!</p>

Week	Date	Mental Maths	Pages	Syllabus Aim	Objectives	Activities	Assessment	Teaching Aids
Thirteenth Week	13 <sup>th</sup> April to 17 <sup>th</sup> April	To know their 6 and 7 times table in order	Pages 50 - 55	Multiplication	<ul style="list-style-type: none"> <li>➤ To be able to use a written sum to multiply any number by a single digit</li> <li>➤ To be able to multiply by a double digit using a written sum</li> </ul>	<ul style="list-style-type: none"> <li>★ Show jumping digits- show the children how to multiply by ten by giving them number cards and asking them to jump up the columns placing 0's in the correct place</li> <li>★ Model written sums</li> <li>★ Whiteboards for show me</li> <li>★ Whiteboards for paired work- one child writes a sum and the other solves</li> <li>★ Have a quiz</li> <li>★ Use place value grids to teach regrouping</li> <li>★ Play collecting sums</li> <li>★ Give four digit number cards and dice to make their own sums</li> <li>★ Treasure Hunt</li> <li>★ Word Problems</li> <li>★ Children write their own word problems</li> <li>★ Target boards</li> </ul> <p>MENTAL MATHS</p> <ul style="list-style-type: none"> <li>★ Fizz Buzz</li> <li>★ Number Salad</li> <li>★ Gunfighter</li> <li>★ Ping Pong</li> <li>★ Chasing Diamonds</li> <li>★ Clap click</li> <li>★ Paired work- one says a sum and the other gives the answer</li> <li>★ Disappearing tables</li> <li>★ Dice game</li> </ul>	<p>Can use a written sum to multiply any number by a single digit</p> <p>Can multiply by a double digit using a written sum</p>	<p>Number cards Whiteboards Dice Diamond!</p>

Week	Date	Mental Maths	Pages	Syllabus Aim	Objectives	Activities	Assessment	Teaching Aids
Fourteenth Week	20 <sup>th</sup> April to 24 <sup>th</sup> April	To know their eight and nine times table randomly and in order	Pages 56 - 63	Multiplication and Factors	<ul style="list-style-type: none"> <li>➤ To be able to use a written sum to multiply any number by a single digit</li> <li>➤ To be able to multiply by a double digit using a written sum</li> <li>➤ Can identify factors of a number</li> </ul>	<ul style="list-style-type: none"> <li>★ To write their own word problems</li> <li>★ To read word problems and solve</li> <li>★ To arrange a cut up word problem and solve</li> <li>★ To write word problems on a given theme</li> <li>★ To investigate all the factors of given numbers</li> <li>★ To make factor spiders</li> <li>★ To group real objects</li> <li>★ Play true or false</li> <li>★ Play thumbs up/ thumbs down</li> </ul> <p>MENTAL MATHS</p> <ul style="list-style-type: none"> <li>★ Fizz Buzz</li> <li>★ Number Salad</li> <li>★ Gunfighter</li> <li>★ Ping Pong</li> <li>★ Chasing Diamonds</li> <li>★ Clap click</li> <li>★ Paired work- one says a sum and the other gives the answer</li> <li>★ Disappearing tables</li> <li>★ Dice game</li> </ul>	<p>Can use a written sum to multiply any number by a single digit</p> <p>Can multiply by a double digit using a written sum</p> <p>Can identify factors of a number</p> <p>Assessment?</p>	<p>Cut up word problems</p> <p>Real objects</p>



Week	Date	Mental Maths	Pages	Syllabus Aim	Objectives	Activities	Assessment	Teaching Aids
Fifteenth Week	27 <sup>th</sup> April to 1 <sup>st</sup> May	To be able to use their multiplication tables to know their inverse division facts	Pages 65 - 71	Division	<ul style="list-style-type: none"> <li>➤ To be able to divide using a written sum</li> <li>➤ To be able to divide with a remainder</li> </ul>	<ul style="list-style-type: none"> <li>★ Model how to set out a written division sum</li> <li>★ Use place value grids to show how the value of the digits has been maintained</li> <li>★ Treasure hunt</li> <li>★ Paired work- one writes a sum and their partner solves</li> <li>★ Give sums and the groups must solve - see which is the first correct answer</li> <li>★ Give four digit number card and a dice and ask the children to make their own sums</li> <li>★ Use target boards and ask them to divide by 4 etc</li> </ul> <p>MENTAL MATHS</p> <ul style="list-style-type: none"> <li>★ Whiteboards for show me</li> <li>★ Group work- one child write a multiplication sum and the others write the division sums</li> <li>★ Matching multiplication and division sums</li> <li>★ Play true or false</li> <li>★ Thumbs up</li> <li>★ Roll two dice, multiply and give the division inverse</li> </ul>	<p>Can divide using a written sum</p> <p>Can divide with a remainder</p>	<p>Place value grids</p> <p>Sum cards</p> <p>Number cards</p> <p>Dice</p> <p>Target boards</p>

Week	Date	Mental Maths	Pages	Syllabus Aim	Objectives	Activities	Assessment	Teaching Aids
Sixteenth Week	4 <sup>th</sup> May to 8 <sup>th</sup> MAY	To be able to add a single digit to any number by counting on	Pages 72 - 77	Division	<ul style="list-style-type: none"> <li>➤ To be able to divide using a two digit number and a written sum</li> </ul>	<ul style="list-style-type: none"> <li>★ Model how to set out a written division sum</li> <li>★ Use place value grids to show how the value of the digits has been maintained</li> <li>★ Treasure hunt</li> <li>★ Paired work- one writes a sum and their partner solves</li> <li>★ Give sums and the groups must solve - see which is the first correct answer</li> <li>★ Give four digit number card and a dice and ask the children to make their own sums</li> <li>★ Use target boards and ask them to divide by 4 etc</li> <li>★ Collecting sums</li> </ul> <p>MENTAL MATHS</p> <ul style="list-style-type: none"> <li>★ Clap click</li> <li>★ Ping pong</li> <li>★ Questioning groups and scoring points</li> <li>★ Target boards</li> <li>★ Gunfighter</li> <li>★ Roll a die and add</li> </ul> <p>Rapid questioning</p>	Can divide using a two digit number and a written sum	<ul style="list-style-type: none"> <li>Place value grids</li> <li>Sum cards</li> <li>Number cards</li> <li>Dice</li> <li>Target boards</li> </ul>