

CLASS : 6

SUBJECT: Mathematics

TEACHER : Sampath Tennakoon

| Month | # Periods | Unit No. | TOPIC / DETAILS | Intended Learning Objectives | Remarks |
|----------------------------------|-----------|----------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| September | | | | | |
| School Reopens - 1st Term | | | | | |
| Week 1 | 3 | A1 | 6-Digit numbers | read, write, order and compare numbers up to 10 000 000 and determine the value of each digit | |
| Week 2 | 3 | E1 | 1-2-3-Place decimals | round any decimal number to a required degree of accuracy | |
| | 2 | E2 | Converting fractions and decimals | associate a fraction with division and calculate decimal fraction equivalents for a simple fraction | |
| | 1 | B1 | Addition of whole numbers | perform mental calculations and column addition including large numbers | |
| | 1 | E3 | Addition of decimals and whole numbers | solve addition multi-step problems in contexts, deciding which methods to use and why | |
| Week 4 | 3 | F1 | Missing number problems | use simple formulae. | |
| | 2 | D1 | Finding missing angles and lengths | recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. | |
| | 2 | F2 | Using brackets | use their knowledge of the order of operations to carry out calculations involving the four operations | |
| Week 5 | 2 | D2 | Converting grams to kilograms | converting measurements of length & mass from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places | |
| | 2 | D3 | Converting lengths | | |
| | 2 | D4 | Finding time intervals | To find the duration of an event and order | |
| | 1 | | MONTHLY ASSESSMENT | | |
| October | | | | | |
| Week 6 | 2 | B2 | Subtraction strategies | subtract larger numbers using place value and number facts | |
| | 2 | E4 | Decimal subtraction | Subtract decimal numbers using appropriate mental strategies | |
| | 2 | E4 | Decimal subtraction | Solve problems involving numbers with up to 3 decimal places | |
| Week 7 | 2 | C1 | Multiplication using mental strategies | Use mental strategies to multiply by 4, 8, 5, 25, 19, 29 and 99 | |
| | 2 | C2 | Short multiplication and the grid method | Revise using short multiplication to multiply 4-digit numbers by 1-digit numbers | |
| | 3 | C3 | Long multiplication and the grid method | Use long multiplication to multiply 3- and 4-digit numbers by teen numbers | |
| Week 8 | 4 | A2 | Negative numbers | Read, write and order negative numbers negative numbers in context, and calculate intervals across zero | |
| | 3 | E5 | Comparing fractions | Compare and order fractions, including fractions >1 | |
| Week 9 | 2 | E6 | Fractions and mixed numbers | Add and subtract fractions with the same denominator Convert mixed numbers to improper fractions and vice versa | |
| | 5 | D5 | Area and perimeter / M: ASSESSMENT | Calculate perimeter and area of rectangles and composite shapes | |

| November | | | | | |
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| Week 10 | 2 | D6 | Finding volume | Calculate volume of cuboids and cubes using cm^3 and m^3 | |
| | 5 | D7 | Calculating area | Calculate area of triangles, rectangles and parallelograms including use of formulae | |
| Week 11 | 2 | D8 | Nets | Recognise, describe, draw and build simple 3D shapes, including making nets | |
| | 5 | C4 | Dividing by whole numbers | Use mental strategies to divide by 2, 4, 8, 5, 20 and 25 | |
| Week 12 | 3 | E7 | Addition and subtraction of fractions | Add & subtract unit fractions with different denominators | |
| | 4 | E8 | Fractions and percentages | Find simple percentages of amounts and solve problems | |
| Week 13 | 3 | E9 | Multiplying and converting fractions | Multiply fractions less than 1 by whole numbers | |
| | 4 | E10 | Dividing fractions by whole numbers | Divide proper fractions by whole numbers | |
| December | | | | | |
| Week 14 | 4 | E11 | Multiplying and dividing fractions | Solve word problems involving fractions | |
| | 3 | G1 | Practising calculations | practice calculations to revise all four operations | |
| Week 15 | 4 | | REVISION/ 1st Term Test | | |
| Week 16 | | | 1st Term Test | | |
| Week 17 | | | Paper corrections and report work | | |
| Week 18 | | | December Vacation | | |
| January 2017 | | | | | |
| Week 19 | | | Vacation | | |
| Week 20 | 2 | | Discussion of the Term test paper | School Reopens - 2nd Term | |
| | 5 | A3 | Reading and writing 7-digit numbers | Read, write, compare and order 7-digit numbers | |
| Week 21 | 3 | B3 | Subtracting large numbers | Solve subtraction of 5- and 6-digit numbers using a written column method | |
| | 3 | E12 | 2-3-Place decimal numbers | divide by 10, 100 and 1000 giving answers up to 3 decimal places | |
| | 1 | E13 | Equivalent fractions and decimals | Decimals and their equivalence to fractions | |
| Week 22 | 3 | B2 | Multiplying fractions | Multiply simple pairs of proper fractions, writing the answer in its simplest form | |
| | 4 | E15 | Multiplying decimal numbers | Use partitioning to mentally multiply 2-digit numbers with one decimal place by whole 1-digit numbers Use short multiplication to multiply money, e.g. $\text{£}46.29$ by 1-digit numbers | |
| Week 23 | 3 | C5 | Multiplying 3-4-digit numbers | Use long multiplication to multiply 3- and 4-digit numbers by numbers between 10 and 30 | |
| | 1 | D9 | 2D Shapes and angles | Name and classify quadrilaterals according to their properties | |
| February | | | | | |
| Week 23 | 3 | D9 | 2D Shapes and angles | Know angle sums for triangles and quadrilaterals and use this fact to calculate missing angles | |
| Week 24 | 2 | B4 | Adding using mental/column method | Solve additions using appropriate mental strategies/column method | |
| | 2 | B5 | Subtracting using mental/column method | Solve subtractions using appropriate mental strategies/column method | |
| | 2 | B6 | Choosing methods for addition & subtraction | choosing appropriate method: read, understand and solve word problems | |
| | 1 | | MONTHLY ASSESSMENT | | |

| February | | | | | |
|----------|---|-----|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Week 25 | 2 | C6 | Identifying factors and multiples | Identify common factors, common multiples and prime numbers | |
| | 2 | C7 | Identifying prime numbers | | |
| | 3 | C9 | Long division | | divide 3-digit numbers by 'friendly' 2-digit numbers, simplifying fraction remainders |
| Week 26 | 2 | B7 | Calculating change | Solve subtractions using appropriate mental strategies | |
| | 3 | E16 | Adding and subtracting decimal numbers | Choose appropriate methods to add and subtract decimal numbers | |
| | 2 | D10 | Calculating averages | Calculate the mean average and understand what it represents | |
| Week 27 | 2 | D11 | Reading line graphs | Construct and interpret distance/time line graphs where intermediate points have meaning | |
| | 3 | D12 | Reading pie charts | Interpret and construct pie charts and use these to solve problems | |
| March | | | | | |
| Week 27 | 2 | D13 | Coordinates and translating shapes | Translate a polygon by adding or subtracting a number to one co-ordinate Reflect simple shapes in both the x-axis and the y-axis | |
| | 2 | D14 | Calculating angles | Find unknown angles around a point, on a line, in a triangle or vertically opposite | |
| Week 28 | 2 | E17 | Solving decimal multiplication problems | Use short multiplication to multiply 4-digit numbers by 1-digit numbers | |
| | 2 | C10 | Dividing by 2-digit numbers | Use long division to divide 4-digit numbers by 2-digit numbers | |
| | 1 | F3 | Describing functions | Express and solve missing number problems algebraically | |
| Week 29 | 4 | F4 | Describing number sequences | Describe and continue linear number sequences | |
| | 3 | E18 | Identifying ratios | Describe ratio and use ratio to solve problems | |
| Week 30 | 4 | | REVISION / 2nd Term Test | | |
| Week 31 | | | 2nd Term Test / Paper Correction | | |
| April | | | | | |
| Week 32 | | | Paper corrections and report work | | |
| Week 33 | | | April vacation | | |
| Week 34 | | | School Reopens - 3rd Term | | |
| | 1 | | Discussion of the Term test paper | | |
| | 1 | A4 | 7- digit numbers | Read, write, compare and order 7-digit numbers | |
| | 1 | A5 | Decimal place value | Compare and order numbers with up to 3 decimal places | |
| | 1 | A6 | Multiplying and dividing by 10,100 and 1000 | Multiply and divide by 10, 100 and 1000 giving answers up to 3 decimal places | |
| Week 35 | 1 | A7 | Rounding numbers | Round whole numbers & decimal numbers to a required degree of accuracy | |
| | 2 | A8 | Positive and negative numbers | Read, write and order negative numbers and calculate intervals across zero | |
| | 3 | B8 | Adding & subtracting whole & decimal no. | Revise adding and subtracting whole numbers using mental and written methods | |

| May | | | | |
|-------------------|---|-----|---------------------------------------------|---------------------------------------------------------------------------------------------------|
| Week 36 | 2 | E19 | Fractions and percentages | Solve problems involving the calculation of percentages and the use of percentages for comparison |
| | 3 | F5 | Algebra | Use order of operations and brackets for calculations involving the four operations |
| | 2 | C11 | Scaling by multiplying and dividing | Solve problems involving similar shapes where the scale factor is known or can be found |
| Week 37 | 2 | C12 | Multiplying by integers and decimals | long multiplication to multiply 2-digit and 3-digit numbers by 2-digit numbers |
| | 2 | C13 | Using division to find fractions of amounts | Use written division methods in cases where the answer has up to 2 decimal places |
| | 1 | C14 | Dividing 4-digit numbers by 2-digit numbers | Use long division to divide 4-digit numbers by 2-digit numbers |
| Week 38 | 1 | C16 | Dividing with a decimal remainder | Use written division methods in cases where the answer has up to 2 decimal places |
| | 2 | D15 | Coordinates | Find missing co-ordinates for a vertex on a polygon |
| | 2 | E20 | Adding and subtracting fractions | Use equivalence to add mixed numbers with different denominators |
| | 2 | E21 | Multiplying and dividing with fractions | multiplying pairs of fractions and multiplying and dividing fractions by whole numbers |
| Week 39 | 3 | E22 | Ratio | Describe ratio and use ratio to solve problems |
| | 2 | D16 | Reading scales and measures problems | Read intermediate points off a variety of scales |
| | 2 | D17 | Properties of 2D shapes | Revise properties and classification of 2D shapes and find unknown angles |
| Week 40 | 3 | D18 | Measuring and calculating angles | Find unknown angles around a point, on a line, in a triangle or vertically opposite |
| | 2 | D19 | Area, perimeter and volume | Calculate perimeter and area of rectangles, triangles and parallelograms |
| | 2 | D20 | Intervals of time / M. ASSESSMENT | calculating time intervals, and revise reading and solving problems using timetables |
| June | | | | |
| Week 41 | 3 | D21 | Interpreting graphs | reading and interpreting different types of data display |
| | 2 | E3 | Binary numbers | Understand that numbers can be represented in different ways, including binary |
| | 2 | F6 | The Fibonacci sequence | recognise and continue fibonacci sequence |
| Week 42 | 5 | | REVISION / 3rd Term Test | |
| Week 43 | | | 3rd Term Test | |
| Week 44/45 | | | Paper corrections and report work | |
| Week 46 | | | Summer vacation | |