

BOOKS: MATHS BEYOND

| Month | Unit/Chapter/Topic | Learning Objective | Resources/Art-integrated pedagogy tools used/E-Resources | Learning Outcomes/Skills Learnt by Students | |
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| APRIL | Chapter - 1 Large Numbers | The learners will be able to * learn 4-digit numbers and their number names * learn the expanded forms and standard forms of 4-digit numbers. * Understand the arrangement of 4-digit numbers in ascending and descending orders . * Learn how to Round off numbers to the nearest tens. * Learn the face value and place value of digits in 4-digit numbers. * Learn how to form 4-digit numbers using given digits . | * Team assignments. * Brainstorming. * Audio visual methods. * Activity based Learning * Application of prior Knowledge. * Demonstration Approach | https://superstarworksheets.com/wp-content/uploads/2023/05/BasicPlaceValueThousandsWorksheets1.jpg Activity: Find top five Mountain peaks of India according to height .List them in decreasing order of height . | After completing this chapter , the students will be able to * Read and write 4- digit numbers * Find face value and place value of given digit in a number * Express a number in expanded form * Compare and order numbers * Build smallest and greatest numbers using the given digits. * Round off numbers to the nearest tens . * Initiative and Self- Direction * Problem Solving * Critical Thinking * Flexibility and Adaptability |
| | Chapter - 2 Addition | The learners will be able to * Add 4-digit numbers with and without regrouping. * Learn about addition facts using large numbers . * Estimate the sum by rounding off the addends. * Add numbers using expanded form. * Solve word problems based on addition. | * Visualization * Experiential learning * Modeling * Peer teaching * Explicit instruction * Demonstrative Approach * Activity Based learning | https://www.k5learning.com/worksheets/math/grade-3-add-4-digit-numbers-in-columns.gif Activity : Make addition tree on A4 size sheet . | After completing this chapter the students will be able to: * Compute the sum of 4-digit numbers without and with regrouping * Apply the properties of addition * Apply the concept of addition in solving daily life problems. * Estimate the sum by rounding off numbers to the nearest tens. * Problem Solving * Creativity and Innovation * Critical Thinking * Information Literacy * Logical Reasoning |
| MAY | Chapter - 3 Subtraction | The learners will be able to * Subtract 4-digit numbers with and without borrowing. * Estimate the difference by rounding off the minuend and the subtrahend. * Solve and frame word problems involving subtraction. | * Use of prior knowledge of learners. * Experiential learning. * Student exploration and discussion of open ended problems * Solution Strategies * Application of concepts * Discussion method. | https://15worksheets.com/wp-content/uploads/2023/03/10-352.png Activity: Show subtraction using Abacus on A4 size sheet. | After completing this chapter the students will be able to: * Compute the difference of 4- digit numbers without and with regrouping * Apply the properties of subtraction * Apply the concept of subtraction in solving daily life problems . * Estimate the difference by rounding off numbers to the nearest tens. * Leadership and Responsibility * Critical Thinking * IMT Skills * Creativity and Innovation * Problem Solving |
| JUNE | SUMMER BREAK | | | | |
| JULY | Chapter -4 Multiplication | The learners will be able to * Learn about multiplication * Multiply without carry over * Multiply with carry over * Learn about multiplication tables * Learn how to multiply by 10s and 100s * Solve word problems | * Content focussed Method * Direct Teaching * Provide students with feedback so that they can refine their efforts. * Mentoring | https://www.tlsbooks.com/pdf/multiplybytwodigit.pdf | After completing this chapter , the students will be able to * Compute the product of a 2- digit number and a 1-digit number , a 3-digit number and a 1-digit number and a 2-digit number and a 2-digit number. * Apply the properties of multiplication. * Multiply a given number by 10, 100 and 1000 mentally. * Apply the concept of multiplication in solving real life problems. * Problem Solving * Creativity and innovation * Critical Thinking * Logical Reasoning |
| | Chapter - 9 Geometry | The learners will be able to * Learn about plane figures and solid shapes * Find the number of vertices , sides , edges and faces of the given figure . Identify and draw Line , line segment , Ray and Point . | * Visualization * Analysis * Abstraction * Demonstration Method * Use of prior knowledge of students. | https://www.math-salamanders.com/image-files/printable-geometry-sheets-3d-shape-properties-1.gif | After completing this chapter , the students will be able to : * Define point , line , line segment and ray. * Measure and draw Line segments. * List the properties of plane shapes and solid shapes. * Creativity and Innovation * Art Integration * Problem Solving * Logical Reasoning * Flexibility and Adaptability |

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| AUGUST | Chapter -5 Pattern and Symmetry | The learners will be able to * Understand patterns and unit of repeat. * Learn about the term symmetry. * Learn about the shapes that tile or do not tile. | * Use of Audio Visual Aids * Discussion Method * Paper folding Activity * Direct Teaching * Use of objects in surrounding to show symmetry. | https://www.k5learning.com/worksheets/math/grade-3-geometry-finding-lines-symmetry.pdf | After completing this chapter, students will be able to * Define the line of symmetry and identify symmetric figures. * Identify and extend patterns in shapes . * Identify and create tessellations/tiling patterns. * Identify and extend number patterns . | * Logical Reasoning * Art Integration * Creativity and Innovation * Leadership and Responsibility * Technology literacy |
| SEPTEMBER TERM - 1 EXAMS | | | | | | |
| OCTOBER | Chapter - 6 Division | The learners will be able to * Learn about division. * Learn about division by equal grouping and sharing. * Write dividend , divisor , quotient and Remainder . * Learn about division facts . * Learn about division by repeated subtraction. * Learn about division using multiplication table . | * Lecture Method * Heuristic Approach * Experiential Learning * Brainstorming method * Oral questioning * Use of prior knowledge of students. | https://www.math-salamanders.com/image-files/3rd-grade-division-problems-3-1.gif https://www.math-salamanders.com/image-files/division-worksheets-3rd-grade-division-multiplication-facts-1.gif | After completing this chapter, the students will be able to * Identify Dividend, Divisor and Quotient in a division statement. * Identify the remainder in a division statement. * Apply the concept of division in solving real life problems. * Identify properties of division. | * Problem Solving * Critical Thinking * Financial literacy * IMT Skills |
| | Chapter - 11 Time | The learners will be able to * Read and write time using clocks. * Reading Time to the Next Hour . * Read calendar. * Duration of Time. | * Investigation Learning * Brainstorming Method * Use of Audio-Visual Aids * Demonstration Method * Discussion Method * Lecture Method | https://www.math-salamanders.com/image-files/free-printable-clock-worksheets-elapsed-time-clock-1.gif | After completing this chapter, the students will be able to * Read time correctly to five minutes. * Convert hours into minutes. * Convert days into hours. * Convert weeks into days and months into days. * Read a calendar and write dates. * Convert years into months and years into days . | * Problem Solving * Critical Thinking * Leadership and Responsibility * Flexibility and Adaptability * IMT Skills |
| NOVEMBER | Chapter- 10 Measurements | The learners will be able to * Measure lengths and distances using appropriate units of length . Measure weight of different objects using appropriate units of weight (gram and kilogram) * Measure the capacity of different containers using appropriate units of capacity (litre and millilitre) * Learn about the relationship between the units of length, units of weight and units of capacity. * Addition and Subtraction of Measures. * Conversion of units . * Solving word problems. | * Experiential Learning * Use of objects in surrounding to clear the concept of measurement. * Discussion Method * Project Based learning. * Heuristic Approach * Investigation Learning | https://www.mathworksheets4kids.com/weight/balancing-scale-metric-large.png | After completing this chapter the students will be able to * Convert units of metric measures from bigger to smaller and vice-versa. * Solve Problems involving length , weight and capacity using Addition and Subtraction. | * Problem Solving * Logical Reasoning * Critical Thinking * Flexibility and Adaptability * Creativity and Innovation |

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| DECEMBER | Chapter - 12 Money | <p>The learners will be able to</p> <ul style="list-style-type: none"> * Convert rupees to paise and vice versa . * Add , Subtract , Multiply and Divide Money. * Make rate charts and bill . * Solve word problems involving real-life applications of money . | <ul style="list-style-type: none"> * Lecture Method * Heuristic Approach * Experiential Learning * Brainstorming method * Use of prior knowledge of students. * Activity based learning * Monitoring | <p>https://tse1.mm.bing.net/th?id=OIP.ST0tF6hrdU9OCW86hyBmAAAA&pid=Api&P=0&w=400&h=517</p> <p>https://diksha.gov.in/play/collection/do_3128989388941967361644?referrer=utm_source%3Dmobile%26utm_campaign%3Dshare_content&contentId=do_3129712357080924161568</p> | <p>After completing this chapter, the students will be able to</p> <ul style="list-style-type: none"> * Identify the notes and coins of various denominations. * Read and write the amount of money as a combination of rupees and paise. * Convert rupees into paise and vice-versa. * Add and subtract rupees and paise . * Multiply and divide money by a whole number. * Apply the concept of money in real life problems. * Prepare a simple bill . | <ul style="list-style-type: none"> * Problem Solving * Critical Thinking * Financial literacy * Leadership and Responsibility | |
| JANUARY | Chapter - 13 Data Handling | <p>The learners will be able to</p> <ul style="list-style-type: none"> * Learn about data collection and it's representation using pictograph. * Draw table of tally marks for different data sets . * Read and interpret the given pictograph. * Read and interpret the given bar graph . | <ul style="list-style-type: none"> * Content Based Learning * Use of Audio-visual aids * Heuristic Approach * Lecture Method * Activity based Learning * Discussion Method | <p>https://www.liveworksheets.com/sites/default/files/styles/worksheet/public/def_files/2022/5/19/20519205806179234/20519205806179234001.jpg?itok=5QqFwRIM</p> | <p>After completing this chapter the students will be able to</p> <ul style="list-style-type: none"> * Represent the data using tally marks. * Represent the given data using pictograph. * Interpret a pictograph. * Interpret a bar graph. | <ul style="list-style-type: none"> * Critical Thinking * Collaboration * Leadership and Responsibility * Problem Solving | |
| FEBRUARY | | FINAL EXAMS | | | | | |