ACADEMIC PLAN :2023-24

CARMEL CONVENT SR SEC SCHOOL ,RATANPUR,BHOPAL.                    STD: IV

SUBJECT:MATHEMATICS

| Month / No of Working Days | Name of the Unit / Chapter/Topic | Learning Outcomes | Suggested Activities/ Projects under Internal Assessment/PRACTICALS | Assignment | Assessment |
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| APRIL | Sem 1 Ch-1 NUMBERS | #Understand and recall the place value till thousand . #Learn place value 0f ten thousand and one lakh. # Write numeral in expanded and short form. #Comparision of the numbers. #Read and write numbers using Indian and International place value system. | Form 2 groups . Assign a body movements to each place value. For example ones- clap your hands, Tens h stamp your foot, Hundreds -take a step towards left, Thousands – take a step towards right, Ten thousands – jump. One group gives a number to one member of the group. Now that member must ask his \her group to guess the number based on his body movements. If his group identifies and tell the number, then that group scores a point. | Number names , arrange large numbers in ascending and descending order. Write Roman numerals for the given Hindu Arabic numeral. | Worksheet Oral Quiz |
| JUNE PT1 21st JUNE | Sem 1 Ch-2 ADDITION ND UBTRACTION. | #Evaluate the sum and difference of 5 and 6 digit numbers . #Explain about the various properties of addition and subtraction. #Estimate the sum and difference of the given numbers by rounding off . | Divide the students in two groups. Two students from a group will come and hold the ginmala( counting beads in a thread) teacher will ask the students to add or subtract some numbers with the help of ginmala. If child did it correctly, that group will get the points . | Adding and subtracting large numbers by grouping. Solve word problems. | PT 1 exam Class test Oral Worksheet |
| JULY | Sem 1 Ch-3 ULTIPLICATIO . | #Evaluate the product of 3 and 4 digit numbers by 2 and 3 digit numbers. #Explain the properties of multiplication . | Take some flash cards with digits marked from 0 to 9. Shuffle the cards. Now call the students one by one and draw any five cards say 5 , 3 , 6 , 7 , | Multiplication of 2 , 3 , 4 digits number by 2 digit number. | Worksheet Group discussion Oral |

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| | Ch- 4 DIVISION | #Solve various word problems . #Estimate the product of tne numbers . #Simplify and find the division of 3 and 4 digit numbers by 1 and 2 digit numbers . #Explain the properties of division . | 8 . The student should arrange these digits randomly on the board and perf8the multiplication. 586x37 Keep some marbles (300) in a box . Make 2 groups of students. Ask one group to take some marbles from the box and divide it into 4 or 5 groups . Make a pair of index cards with numbers and their factors written on them . Now give a number card to one student,then ask him to find the card of its factors . | Divide 4 3 and 4 digit number by 1 and 2 digit number. Recall odd , even , prime and composite numbers. Do the test of divisibility of numbers by 2 , 3 , 4 , 5 , 6 and 10. Find LCM and HCF of numbers using different methods. | |
| | Ch-5 MULTIPLES AND FACTORS | # Solve story sums . #Interpret the meaning of term multiple . #Explain the properties of multiples and factors . #List the common multiples and common factors of 2 numbers. #Distinguish between prime and composit numbers . #Test the divisibility of numbers by 2,3,4,5,9and 10. #Determine LCM and HCF of given numbers. | | | |
| AUGUST | Sem 1 Ch-6 FRACTIONS | #Show fractions on number line . #Explain about  like , unlike , proper , improper and mixed fractions . #Relate improper and mixed fractions . #Simplify fractions . #Explain about addition and subtraction of like and unlike fractions . | Make some flash card of mixed fractions and their improper fractions. Distribute the cards to all the students . Now ask them to find the correct pair of improper and mixed fractions. | Convert improper fractions into mixed fractions. Do addition and subtraction of like and unlike fractions. | Group activity Class test Worksheet |
| | Ch-7 TIME | #Explain about the two types of clocks | | Convert 12 hours time to 24 hours time and vice versa. | |

|  |  | ie.12 hr and 24 hr clock.<br>#Make use of methods to do conversion of time involving all the combinations of second,minute,hour , day ,weeks , months ,year etc.<br>#Explain addition and subtraction of time . | Ask the children to write the birthdays of their 10 friends according to the increase order of dates. | Conversion of units of time . |  |
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| SEPTEMBER<br>HALF YEARLY EXAM – 4 SEPTEMBER | Sem 2 Ch-1 DECIMALS | #Recall the meaning of decimals and show how decimal is represented by a small point (.) .<br>#Organise the decimal number in a place value chart .<br>#Show the conversion of decimals into fractions and fractions into decimals.<br>#Comparision of the decimal numbers .<br>#Make use of rules to add and subtract decimals. | Distribute 10x10 square grids paper to the students. Ask them to write each letter of their name on each square grid by colouring the grid . Now write the decimal fraction of the coloured grid. | Convert decimal number into fraction.<br>Arrange the given decimal numbers in ascending and descending order.<br>Do addition and subtraction of decimal numbers. | Term 1 exam Individual activity Worksheet |
| OCTOBER | Sem 2 Ch-2 MONEY | #Recall about money and its concepts .<br>#Relate between rupees and paise .<br>#Simple problems involving addition , subtraction , multiplication and division of money.<br>#Explain about bills , profit and loss . | Ask the students to buy some stationary items , then make a bill for those items. | Convert  rupees into Paise and paise  into rupees.<br>Solve addition, subtraction and multiplication of money. | Worksheet Oral Class activity |
|  | Ch- 3 MEASUREMET | #List the different units to measure length , weight and capacity .<br>#Relate the different units of measurement.<br>#Show addition and subtraction . solve word problems . | Measure the length of your hand , arm , thumb , index finger and more . Make a table and record the observation about yourself. | Convert different units of measurement like mm, cm , m ,km .<br>Word problems based on measurement. |  |
| NOVEMBER | Sem 2 Ch – 4 GEOMETRY | #Compare between a line , a ray and a line segment . | Make aeroplanes out of waste sheets of paper . Observe the symmetrical | Draw different geometrical shapes . | Worksheet Quiz Activity |

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| | Ch – 5 PERIMETER ND AREA | #Show the measurement of line segment using the ruler . #Explain about open and closed curve . #Explain about polygons and circles . #Show the construction of a circle. #Explain about angles , symmetry and reflection. #Explain about perimeter of polygon . #Apply the formula to find perimeter of square and rectangle . #Explain about area , and apply the formula to find area of square and rectangle . | folds required to make them and write their numbers. <br><br> Take straw or matchsticks. Now make different shapes and stick these on a chart paper. Find out the sides and perimeter of each shape. For example, make a square with the help of the match sticks and measure each side . Then find out the perimeter. | Find out symmetrical objects from your surroundings. <br><br> Find out the perimeter and area of the given figure. | |
| DECEMBER PT 2 – 1St DECEMBER | Sem 2 Ch – 6 VOLUME ND NETS Ch – 7 DATA ANDLING | #Explain about volume of cube and cuboid . #Outline 3D shapes on a dot paper . #Explain about nets . #Outline the nets of cube , cuboid , cylinder and cone. | Make a cylinder. Take a rectangular sheet of chart paper and roll it such that the two edges meet. The cylinder formed above has both the ends open . To make a cylinder with both the ends closed , two circular shaped chart papers need to be attached at the ends of the cylinder. | Draw the different nets of cube . Find the volume of cube and cuboid of the given sides. <br><br> Draw the pictograph and bargraph for the given data. | PT 2 exam Worksheet Oral |
| JANUARY | Revision | Preperation for final exam | Revision of all the topics done earlier. | | |
| FEBRUARY Final exam 15 Feb 24 | Final exam | | | | |

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| MARCH Final exam continue.. | Final | | | | |

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