| Name of the department-Mathematics |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Name of the Subject Teacher: Sufiya Naz |  |  |  |  |  | Grade: 4 |  |  |  |  |  |  |  |  |
| $\frac{\sum_{2}^{2}}{2}$ | 甾 | UnitSection |  | Topic Break Down / for Periods/Learning objectives / progression | $\underset{\substack{\text { Learning Outcomes } \\ \text { acquired }}}{\text { Skills }}$ | $\begin{gathered} \hline \text { Activities (Formative assessment } \\ \text { tasks, projects. Visits) } \\ \text { INCUDING VIRTUAL } \\ \text { LEARNING } \\ \hline \end{gathered}$ | Teaching Aids / Reference/ Resources | Competencies and Values | $\begin{gathered} \text { MY } \\ \text { IDENTITY } \end{gathered}$ | Cross curricular link | Att Integraion | Critical Thinking Objective | Critical Thinking Subjective | Artificial Intelligence |
| April | 1 2 3 4 4 | $\begin{gathered} \text { Large } \\ \text { Numbers } \end{gathered}$ | 15 | Building numbers up to9,99,99  <br> Indian place value chart  <br> Face value and face value of a digit in a  <br> Comparison and ordering on numbers.  <br> Successor and predecessor of a number.  <br> International place value chart.  <br> Number of numbers in betwen.  <br> Forming numbers.  <br> Rounding off numbers to the nearest  <br> Roman numerals.  <br>   | REPRESENT numerals up to 6 <br> INDIATEAT the place, place <br> CONSTUCT numeras with <br> REPRESENT numerals wup to <br> Organising <br> COMPARE AND <br> Logical Reasoning <br> ESTIMATE numbers to the | Math Lab Activity <br>  <br> Composing and decomposing of <br> nMCQ <br> http://mycbsseguide.com/onlinetest/c <br> Mental Ability Test <br> Interdisciplinary proiect <br> Population of each emirate of UAE <br> - Present the e data on map of UAE. <br> Representation of vent dates <br> Home Assignments | PPT/ VIDEO/ WEB LINK | COLLABORATI ON \&INDEEENDEN TLEARNING// EMPARHY/ CARE/ HONESTY | $\begin{array}{\|c\|} \text { Find out Arabic } \\ \text { numbers from } 1 \\ \text { to } 10 \end{array}$ | $\begin{aligned} & \text { ICT: Database } \\ & \text { Social \& UAE: } \\ & \text { Population of UAE } \end{aligned}$ | Place Value Cards <br> Rearranging cards and finding possible outcomes <br> as asked <br> Flyers Mode <br> Representing a number in various forms Puzzeles <br> Applying knowledge in artistic questions by identifying the mathematical logic |  |  |  |
| May | 1 2 3 4 4 | $\begin{gathered} \text { Addition and } \\ \text { Subrationof } \\ \text { Large } \\ \text { Numbers } \end{gathered}$ | 18 | Addition \& Subtraction of Large Understand the Properties of Addition\& Finding the missing numbers Apply the Addition \& Subtraction in Real Estimating sums \& difference | Numeracy/ Organizing/ CARRYING OUT addition of Cing OUT CARRYING OUT subtraction VERIFY subtraction by |  | PPT/VIDEO/ WEBLINK |  | Find out the population of different U. A. F. Find the total population | $\left\|\begin{array}{\|c\|} \text { ICT: Create PPT and } \\ \text { Total length of roads } \\ \text { in UAE } \\ \text { Social \& UAE: } \\ \text { Population of UAE } \end{array}\right\|$ |  | Which of the following is NOT equal to $54+23$ ? Which of the following shows identity property? <br> If we start subtracting 5 from 24 stepwise as shown, we will be able to subtract 4 times. 24-$5=1919-5=1414-5=99-5=4$ (the process stops$\begin{array}{c}\text { here as } 4 \text { is smaller than 5) If we start subtracting } \\ 7 \text { from } 143 \text { in a similar manner, how many times }\end{array}$ | During the ramadan sale, Carrefoure attended the following number of customers. How many customers came together in all? A soap factory produced $2,692,654$ soaps in one year. In the next year, it produced 867,205 more. How many soaps did the factory produced in the second year? |  |
| June | 1 2 3 4 4 | $\begin{gathered} \text { Multiplication } \\ \text { and Division } \\ \text { of Large } \\ \text { of umbers } \end{gathered}$ | 20 | Properties of multiplication and division. <br> Multiplication and division by 10/ $100 /$ <br> Multiplication by Multiplication by 2digit/ 3digit Division by 1digit/ 2digit divisor. Multiplication and division in real life. Estimation in operations. | DEVISING the properties of PUT INTO PRACTICE Problem Solving DESIGNING real life problems APPLY the understanding of | Mental Math Test <br> Home Assignments <br> Mathletics <br> - Order of <br> - Identifying errors in applysing the | PPT/VIDEO/ WEBLINK | CRIITCAL THINKING/ COLLABORATI ON/ PROBLEM SOLVING/ EMPARHY/ CARE/ HONESTYINTE | $\begin{gathered} \text { Find out the } \\ \text { populataion of } \\ \text { different } \\ \text { Expatairates in } \\ \text { UAE } \end{gathered}$ |  | Researcher <br> Research and find the pattern related with multiplication table of 11 show it in the form of pyramid <br> Array board Arrays On square grid or graph paper depicting the result of division of numbers Operational Flower <br> In center of flower there is a number representing | What should be added to $7 \times 42$ to get $7 \times 43$ 428721 is? <br> Estimate the product. Round the first factor to the What would be 9 more than 5 less than 25 ? <br> Which pair of calculations gives TWO DIFFERENT ANSWERS? <br> What is $19-18+17-16+15-14+13-12$ ? |  |  |
| $\frac{\text { July }}{\substack{\text { August }}}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1 2 3 4 4 | Factors and Multiples | 12 |  | Numeracy/ Reasoning skill <br> PUTT INTO PRACTIC Anallyse/ Compute/ Organise BREAK DOWN the numeral APPLY the understanding of | Math Lab Activity <br> Find prime numbers from 1 to 100 <br> MCQ <br> Formative Assessment task <br> Represent prime factorization by <br> Mental Math Test - Inter class <br> Home Assignments | PPT/VIDEO/ WEBLINK | CREATIVITY <br> AND <br> INOVATON/ <br> INOLLABORATI <br> COLLAROLEM <br> ON/PROLEI <br> SOLIN <br> INDEPENDENT <br> LERNNING/ <br> CARE <br> TOLERANCE | Which is the smallest prime number? ?ind out its relation with U.A.E | UAE\&SOCIAL: Dates from the history SCIENCE: Derivation/ numerical ICT: Database | Find the prime and composite game Solving the puzzle to coloring prime and composite numbers differently and obtaining the artistic image | The sum of composite numbers coming just before and after 17 is? Twin prime number between 59 an 79 is? | Using the numbers from the box, find pairs that (YOU CAN USE EACH NUMBER ONLY ONCE! <br> Which number to fill to make the number divisible and also that makes the number smallest / largest 76890_; by 2 |  |
| September |  | $\begin{gathered} \text { Data } \\ \text { Handling } \end{gathered}$ | 9 | Organizing and interpret pictograph. Reading bar graphs. Drawing a bar graph using data table | Graphic skill Data Analysis |  | PPT/VIDEO/ WEBLINK | CREATIVITY <br> AND <br> INNOVATION/P <br> ROBLEM/ <br> SOLLING/ <br> COLLABORATI <br> ON/ <br> INDEPENDENT <br> LEARNING/ <br> TOLRENCE/ <br> CARE | Draw some trafticsignals and rind out the relaton with angles | ICT: Database UAERSCOCILL: Geomery in day Today Ifie ARCHITCTURE: Architecture around UAE | Create a Bar graph and pictograph For the given data construct a bar graph Relate tally table with art Research and find an ant which uses only lines in it | The graph shows the number of Pokemon cards hat 5 children have. Who has exactly 200 cards more than Akshay? <br> The following bar graph shows the marks obtained by Ramesh in different subjects in the Session Ending Examination-2012. What is the total marks obtained in all the five subjects? | Children of classess 1 to 5 have collected money to help victims of natural diasaster. The amour lected is listed below in the table. Make a pictograph using an appropriate key |  |
| October | 1 2 3 4 4 | Geomerry | 24 |  |  |  | PPT/VIDEO/ WEBLINK | INDIPENDENT <br> LIARNING/ <br> CREATVITY <br> CREANDY <br> INNOVATION/ <br> DIGTAL <br> COMPETENCE/ <br> HONETTY/ <br> CARE <br> INTEGRITYPRO <br> BLEM SOLVING <br> COLLABORATII | Draw some traffic signals and find out he relation with angles | UAE\&SOCIAL: <br> Geometry in day <br> ARCHITECTURE: <br> Architecture around <br>  <br> IIT: <br> Project work, ppt. <br> ART: <br> Tangrams | Paper Craft <br> Draw and represent various polygons and geometric elements Use compass to design wonderful images Design <br> 3 D shapes with paper Toothpick craft <br> Make any shape and find its perimeter Design an obstacle race <br> On a square grid Design an obstacle race and find shortest distance |  |  |  |
| vember | $\stackrel{3}{3}$ | Fractions | 20 |  | Numeracy/Drawing skill DISTINGUUSH the different COMPAR AND ORDER like Analyze/ Compute/ organize OPERATE Like/fractions over $+/$ Analyze/ / ompute / Problem SOLVE problems related to | Math Lab Activity <br> Make the dial of clock by paper <br> Formative Assessment Task <br> Types of frations - ictorial <br> Design a situation in class related <br> Interdiscioninary proiect <br> Amount of fresh water availabl on <br> - Represent it it fras fraction | PPT/VIDEO/ WEBLINK | LEARNING/ CREATIVITY AND NNOVATION/ DIGITAL | Draw a clock and mark the numbers in | ICT: Project work, <br> ppt <br> ART: Tangrams GEOGRAPHY |  |  |  |  |



