

**CLASS – VI**  
**LESSON PLAN**  
**CHAPTER-3 PLAYING WITH NUMBERS**

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| Unit                                | PLAYING WITH NUMBERS (Chapter 3: Playing with Numbers)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Class Transaction                   | Total: 12 periods (approx. 40 min each)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Pre-requisite for the <u>course</u> | This lesson requires <ol style="list-style-type: none"> <li>1. Basic knowledge of natural numbers and whole numbers.</li> <li>2. Greater and smaller number using number line</li> <li>3. Compare two given numbers</li> <li>4. Writing numbers in ascending and descending order</li> </ol>                                                                                                                                                                                                                                                                                                                                                        |
| Assessment of qualifying knowledge  | <ol style="list-style-type: none"> <li>1. Written test</li> <li>2. Lab activity</li> <li>3. HW notebook</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Objective                           | Students will be able to: <ul style="list-style-type: none"> <li>• recall Odd/ Even numbers.</li> <li>• differentiate between prime and composite numbers.</li> <li>• find the factors of the given number</li> <li>• find the multiples of the given number.</li> <li>• find the common factors and multiples</li> <li>• find the HCF and LCM.</li> <li>• identify the situations where to use L.C.M. and H.C.F.</li> <li>• solve the word problems of HCF and LCM.</li> <li>• apply the concept in their day to day life.</li> </ul> Thereby inculcating competencies like <b>collaboration, critical thinking , citizenship and creativity</b> . |
| Learning Outcomes                   | <b>KNOWLEDGE-</b> <i>Students will <b>develop</b> the ability to :</i> <ol style="list-style-type: none"> <li>a) Write the Factors and Multiples of given numbers</li> <li>b) Use the concept of factors and multiples in finding HCF and LCM.</li> <li>c) Distinguish between Prime and Composite numbers.</li> <li>d) Use of divisibility rules in solving problems including critical thinking and collaboration in the process.</li> <li>e) Apply the concept of HCF and LCM in solving problems.</li> </ol>                                                                                                                                    |

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|                                                                                                                            | <p><b><u>SKILLS and COMPETENCIES</u></b></p> <p><b>Critical thinking and problem solving</b> (work effectively with others),</p> <p><b>Character building</b> (Takes tasks fearlessly and achieves goals.)</p> <p><b>Communication</b> (evaluates the information critically and competently.</p> <p><b>Collaboration</b> (responds open mindedly to different ideas)</p> <p><b>Creativity</b> (develops ,implements and communicates new ideas)</p>                                                                                                                                                                                                                                                                                                                                                                                                 |
| Transaction Methodology<br>(The teacher can use the mentioned techniques, wherever applicable, and can use any other too.) | <p><b>Strategies used- Inductive deductive reasoning, muddiest point discussion, think pair share.</b></p> <p><b>Dimensions Of Learning- D1,D2</b></p> <p>Transaction would proceed in the following manner-</p> <p><i>Brain Storming</i>-The class would start with a discussion on what the students have already learnt in the previous classes and hence what is it that they would learn now. They would also be told the significance of the topic that they would be studying.</p> <p><i>Introduction of the topic</i>- ppt and Digital Content would be shared</p> <p><i>Guided practice followed by Independent Practice</i>- NCERT questions to be discussed in the classroom.</p> <p><b>Techniques to be used:</b></p> <p>Quiz</p> <p>Daily Practice Problem</p> <p>MCQ</p> <p>Peer Assessment</p> <p>Lab Activities</p> <p>Any Other</p> |
| Resources                                                                                                                  | <p>Text Book:</p> <p>NCERT text book for Mathematics</p> <p>Reference Book</p> <p>CBSE Exemplar</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Self Study, Home Work, Assignments                                                                                         | <p><b>Independent Practice:</b> Students would do the given questions in their H.W. notebooks by which we can assess their critical thinking and creativity.</p> <p>H.W. notebooks to be marked as per the given plan:</p> <p><i>Assessment Parameters:</i> The total marks for the activity is 5 marks</p> <p>On time submission.....1 mark</p> <p>Presentation/ Neatness (Creativity).....1 mark</p> <p>Content (Critical thinking and Creativity).....3 marks</p>                                                                                                                                                                                                                                                                                                                                                                                 |

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|                                | It is also advised that the students come to the class with proper background knowledge of the topic under discussion. They can refer to the resources stated above.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Assessments                    | <p>Through Pen Paper Test Students will be assessed <b>creatively and critically</b></p> <p><b>4 UNIT TESTS</b> 25 Marks each</p> <p><b>HALF YEARLY EXAMINATION</b> 80 Marks</p> <p><b>ANNUAL BOARD EXAMINATION</b> 80 Marks</p> <p><b>INTERNAL ASSESSMENT</b> 10 Marks</p> <ul style="list-style-type: none"> <li>Note Book Submission 5 Marks</li> <li>Lab Practical (Subject Enrichment ) 5Marks</li> </ul> <p>Through lab Practical Students are assessed for <b>Collaboration, Character building, and Citizen ship</b></p>                                                                                                                                                                                                              |
| Addressing Classroom Diversity | <p>Due to various social backgrounds and multiple intelligences, the classroom might be a diverse arena. The following techniques can be used for various groups:</p> <p><i>For gifted students:</i></p> <ul style="list-style-type: none"> <li>Encouragement for referring other resources</li> </ul> <p><i>For weak students:</i></p> <ul style="list-style-type: none"> <li>Buddy help to be provided</li> <li>Provide grade-up classes</li> </ul> <p><i>For differently abled students:</i></p> <ul style="list-style-type: none"> <li>Ignore spelling mistakes and formulae, if not written</li> <li>Call parents at regular intervals</li> <li>Provide grade-up classes</li> <li>Encourage and motivate them at every level.</li> </ul> |
| Marks                          | The weightage would be given by CBSE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Assessment                     | <p>1. What is the LCM of two prime numbers?</p> <p>2. Using divisibility test, determine if 1234563 is divisible by 11.</p> <p>3. Find HCF of 180 and 204 by division method.</p> <p>4. Find the largest 4-digit number that is exactly divisible by 10, 12 and 15.</p> <p>5. Rita, Gita and Sita begin running from the same starting point, at the same time, around a circular stadium. Rita reaches the starting point in 72 seconds, Gita in 90 seconds and Sita in 108 seconds. After what time they will meet again at starting point?</p>                                                                                                                                                                                             |

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| <b>TOPIC</b>                                                                                                                   | <b>DAY ONE - FACTORS AND MULTIPLES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Pre- Requisite for the course</b>                                                                                           | This topic requires basic knowledge of Natural numbers and Whole numbers which students have already learnt in previous classes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Assessment of qualifying knowledge</b>                                                                                      | Quiz and knowledge testing on what comes after and before of numbers and their properties.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Objective</b>                                                                                                               | Students will be able to Enhance their ability to find and recognize the factors and multiples of given number, also able to differentiate between factors and multiples.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Learning Outcomes</b>                                                                                                       | <p><u>KNOWLEDGE</u>- Students will know and find the factors and multiples of numbers.</p> <p><u>SKILLS and COMPETENCIES</u> Students would be able to <b>Reason effectively and critically the factors and multiples</b> of given numbers.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)</b> | <p><b>Strategies used- Think pair share.</b></p> <p><b>Dimensions Of Learning- D1,D2</b></p> <p>Transaction would proceed in the following manner-</p> <p><b>Anticipatory Set: 10 min</b></p> <p>The facilitator introduces the chapter by creating interest by writing some of the numbers on the black board and ask them to observe as –</p> <ul style="list-style-type: none"> <li>• 24 – 1, 2, 3, 4, 6, 12, 24</li> <li>• 12- 12, 24, 36, 48</li> <li>• 15- 1, 3, 5, 15</li> <li>• 18 – 18, 36, 54, 72 etc.</li> </ul> <p>Learners will observe the numbers carefully and with their findings, instructor will show a digital content and further explain the topic of Factors and Multiples and will do some parts of Ex3.1 on blackboard.</p> <p><b>I.P.</b> Ex. 3.1</p> <p><b>ACTIVITY 5 min:-</b> Group discussion(<b>Discussion of topic through Collaborative Learning Group discussion, think pair and share and Communication</b> )</p> <p><b>Guided practice: 15 min</b></p> <p>Students will solve Ex. 3.1 from NCERT book. The facilitator would take rounds and help the students in solving the questions.</p> <p><b>Independent Practice:</b> Learners will do the remaining parts of Ex3.1 in their homework notebooks.</p> <p><b>Closure: 5 min</b></p> |

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|                                                                                                                                | A short oral test would be taken to check proper assimilation of the topic discussed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Resources                                                                                                                      | Text Book:<br>NCERT text book for Mathematics<br>Reference Book<br>CBSE Exemplar.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Self Study, Home Work, Assignments                                                                                             | <b>Independent Practice:</b> Students would do the remaining parts of Ex3.1 in their homework notebooks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Assessments                                                                                                                    | Oral Test / Independent practice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>TOPIC</b>                                                                                                                   | <b>DAY TWO PRIME AND COMPOSITE NUMBERS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Pre- Requisite for the course</b>                                                                                           | This topic requires basic knowledge of Whole numbers which students have already learnt in previous classes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Assessment of qualifying knowledge</b>                                                                                      | Identifying the prime and composite numbers and using them to solve problems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Objective</b>                                                                                                               | To be able to understand prime and composite numbers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <b>Learning Outcomes</b>                                                                                                       | <u><b>KNOWLEDGE-</b></u> <i>Students will <b>develop</b> the ability to use the prime and composite numbers in solving problems.</i><br><u><b>SKILLS and COMPETENCIES -</b></u> <i>Students would be able to <b>critically</b> apply the concepts of Prime and composite numbers for solving problems.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)</b> | <b>Strategies used- Inductive deductive reasoning</b><br><b>Dimensions Of Learning- D1,D2</b><br><br>Transaction would proceed in the following manner-<br><b>Recapitulation: 5 min</b><br>Oral test on the previous concept would be taken up like:<br><b>RECAP</b><br>What are factors?<br>Which is first multiple of a number?<br>Which number is a factor of every other number<br><b>Discussion of topic through Collaborative Learning: 15 min( Think pair and share)</b><br>Facilitator will write few numbers and ask learners to find the factors of given number:<br><ul style="list-style-type: none"> <li>12, 15, 16,etc.</li> <li>11, 13, 7,etc.</li> </ul> She will ask learners to share their experiences, with the help of those and digital content she will explain the topic and give students sufficient practice.<br><b>Guided Practice: 15 min</b><br>The students will solve the questions from NCERT book of Exercise 3.2 in their notebook in the class with the help of their facilitator. The facilitator would |

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|                                                                                                                                | <p>ensure that each student tries to be independent at the work as well as be under the teacher's guidance.</p> <p><b>Independent Practice:</b> Students will complete the remaining HW parts given of Exercise 3.2 in their Math HW notebook.</p> <p><b>Closure: 5 min</b></p> <p>A short video to recap can be shown.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Resources                                                                                                                      | <p>Text Book:<br/>NCERT text book for Mathematics</p> <p>Reference Book<br/>CBSE Exemplar</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Self Study, Home Work, Assignments                                                                                             | <b>Independent Practice:</b> Students would do the given questions in their H.W. notebooks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assessments                                                                                                                    | Independent Practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>TOPIC</b>                                                                                                                   | <b>DAY THREE PRIME AND COMPOSITE NUMBERS CONTD.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Pre- Requisite for the course</b>                                                                                           | This topic requires basic knowledge of Whole numbers which students have already learnt in previous classes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Assessment of qualifying knowledge</b>                                                                                      | Identifying the prime and composite numbers and using them to solve problems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Objective</b>                                                                                                               | To be able to attain mastery on prime and composite numbers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <b>Learning Outcomes</b>                                                                                                       | <p><u><b>AFFECTIVE-</b></u> <i>Students will <b>attain</b> the mastery to use the prime and composite numbers and will able to express any number as sum of two or more prime numbers.</i></p> <p><u><b>SKILLS and COMPETENCIES</b></u> - <i>Students would be able to <b>critically apply</b> the concepts of Prime and composite numbers for solving problems.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)</b> | <p><b>Strategies used- Inductive deductive reasoning</b></p> <p><b>Dimensions Of Learning- D1,D2</b></p> <p>Transaction would proceed in the following manner-</p> <p><b>Recapitulation: 5 min</b></p> <p>Oral test on the previous concept would be taken up like:</p> <p><b>RECAP</b></p> <p>What are prime numbers?</p> <p>Which are composite numbers?</p> <p><b>Discussion of topic through Collaborative Learning: 15 min</b></p> <p>Facilitator will show a digital content and give students sufficient practice.</p> <p><b>Guided Practice: 15 min</b></p> <p>The students will solve the questions from NCERT book of Exercise 3.2 in their notebook in the class with the help of their facilitator. The facilitator would ensure that each student tries to be independent at the work as well as be under the teacher's guidance.</p> |

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|                                                                                                                                | <p><b>Independent Practice:</b> Students will complete the remaining HW parts given of Exercise 3.2 in their Math HW notebook.</p> <p><b>Closure: 5 min</b></p> <p>A short video to recap can be shown.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Resources                                                                                                                      | <p>Text Book:<br/>NCERT text book for Mathematics</p> <p>Reference Book<br/>CBSE Exemplar</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Self Study, Home Work, Assignments                                                                                             | <p><b>Independent Practice:</b> Students would do the given questions in their H.W. notebooks.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assessments                                                                                                                    | Independent Practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>TOPIC</b>                                                                                                                   | <b>DAY FOUR DIVISIBILITY RULES OF WHOLE NUMBERS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Pre- Requisite for the course</b>                                                                                           | This topic requires basic knowledge of addition, subtraction and multiplication of whole numbers which students have already learnt in previous classes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Assessment of qualifying knowledge</b>                                                                                      | To be able to identify the problem where divisibility rules can be used and use it in solving problems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Objective</b>                                                                                                               | To be able to understand the divisibility rules of whole numbers how to use them in solving problems. .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Learning Outcomes</b>                                                                                                       | <p><u><b>KNOWLEDGE</b></u>- <i>Students will be able to do the Questions based on Divisibility rules.</i></p> <p><u><b>SKILLS</b></u> and <u><b>COMPETENCIES</b></u> - <i>Students would be able to</i></p> <p>1. <b>Critically apply</b> The divisibility rules in given situations and <b>collaboratively</b> realize the importance of use of divisibility rules in real life.</p> <p>2. <b>Compare and analyze</b> the suitability of different divisibility rules.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)</b> | <p><b>Strategies used- Think pair share.</b></p> <p><b>Dimensions Of Learning- D1,D2</b></p> <p>Transaction would proceed in the following manner-</p> <p><b>Recapitulation: 5 min</b></p> <p>Quick revision on the previous concept would be taken up. The instructor will take a recap by following questions:-</p> <ol style="list-style-type: none"> <li>1. What are Twin primes?</li> <li>2. Write a pair of two odd prime number with a sum as 44</li> </ol> <p><b>Discussion of topic through Collaborative Learning: 15 min</b><br/>(Creativity, Collaboration/ Head the number)</p> <p>She will provide the list of some numbers such as 128, 255, 300 etc and ask students to check whether they are divisible by 2, 3, 5, 6,. Students will sit in pair and together try to solve the given questions.</p> <p>The facilitator will give sufficient time and practice to students to attain mastery on the questions of Divisibility rules.</p> |

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|                                    | <b>Guided Practice: 15 min</b><br>Students will understand the concept of Divisibility rules and will solve the questions from NCERT book Ex-3.3 in their notebook in the class with the help of their facilitator. The facilitator would take rounds and help the students in solving the questions. Guided practice followed by independent practice.<br><b>Independent Practice:</b> Ex3.3 remaining parts.<br><b>Closure: 5 min</b><br>Discussion of muddiest point/ oral test.<br>. |
| Resources                          | Text Book:<br>NCERT text book for Mathematics<br>Reference Book<br>CBSE Exemplar.                                                                                                                                                                                                                                                                                                                                                                                                        |
| Self Study, Home Work, Assignments | <b>Independent Practice:</b> Students would do the given questions in their H.W. notebooks.                                                                                                                                                                                                                                                                                                                                                                                              |
| Assessments                        | Independent Practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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| <b>TOPIC</b>                                                                                                                   | <b>DAY FIVE- DIVISIBILITY RULES CONTD.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Pre- Requisite for the course</b>                                                                                           | This topic requires basic knowledge of Whole numbers which students have already learnt in previous classes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Assessment of qualifying knowledge</b>                                                                                      | Identifying the divisibility rules of numbers and using them to solve problems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Objective</b>                                                                                                               | To be able to understand divisibility rules of numbers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Learning Outcomes</b>                                                                                                       | <b>KNOWLEDGE-</b> <i>Students will <b>develop</b> the ability to use the divisibility rules of numbers in solving problems..</i><br><b>SKILLS and COMPETENCIES</b> – 1. <i>Students would be able to <b>critically apply</b> the concepts of divisibility rules of numbers for solving problems.</i><br>2. <b>Compare and analyze</b> the suitability of different divisibility rules.                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)</b> | <b>Strategies used- Inductive deductive reasoning</b><br><b>Dimensions Of Learning- D1,D2</b><br><br>Transaction would proceed in the following manner-<br><b>Recapitulation: 5 min</b><br>The facilitator will conduct one minute recap to assess the learning of previous day. Oral test on the previous concept would be taken up like:<br>1. What is the divisibility rule of 2?<br>2. What is the divisibility rule of 3?<br><b>Discussion of topic through Collaborative Learning: 15 min</b><br>She will provide the list of some numbers such as 148, 655, 1200 etc and ask students to check whether they are divisible by 4, 8, 9. Students will <b>sit in pair and together try to solve the given questions. ( Critical, Communication, Collaboration )</b> |

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|                                                                                                                                | <p><b>Guided Practice: 15 min</b><br/>The students will solve the questions from NCERT book Ex-3.3 in their notebook in the class with the help of their teacher. The teacher would ensure that each student tries to be independent at the work as well as be under the teacher's guidance.</p> <p><b>Independent Practice:</b> Students will complete the remaining HW parts of Ex 3.3 in their Math HW notebook.</p> <p><b>Closure: 5 min</b><br/>A short oral test would be taken to check proper assimilation of the topic discussed.</p>                                                                           |
| Resources                                                                                                                      | <p>Text Book:<br/>NCERT text book for Mathematics</p> <p>Reference Book<br/>CBSE Exemplar</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Self Study, Home Work, Assignments                                                                                             | <b>Independent Practice:</b> Students would do the given questions in their H.W. notebooks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Assessments                                                                                                                    | Oral test/ Independent practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>TOPIC</b>                                                                                                                   | <b>DAY SIX- DIVISIBILITY RULES CONTD.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Pre- Requisite for the course</b>                                                                                           | This topic requires basic knowledge of whole numbers which students have already learnt in previous classes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Assessment of qualifying knowledge</b>                                                                                      | To be able to identify the problem where divisibility rules can be used and use it in solving problems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Objective</b>                                                                                                               | To be able to understand the divisibility rules of whole numbers how to use them in solving problems. .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Learning Outcomes</b>                                                                                                       | <p><b>KNOWLEDGE-</b> <i>Students will be able to do the Questions based on Divisibility rule.</i></p> <p><b>SKILLS and COMPETENCIES - Students would be able to:</b></p> <ol style="list-style-type: none"> <li>1. <b>Critically apply</b> the concepts of divisibility rules in given situations and <b>collaboratively</b> realize the importance of use of divisibility rules in real life.</li> <li>2. <b>Compare and analyze</b> the suitability of different divisibility rules.</li> </ol>                                                                                                                        |
| <b>Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)</b> | <p><b>Strategies used- Think pair share.</b></p> <p><b>Dimensions Of Learning- D1,D2</b><br/>Transaction would proceed in the following manner-</p> <p><b>Recapitulation: 5 min</b><br/>Quick revision on the previous concept would be taken up. The instructor will take a recap by following questions:- The facilitator will conduct one minute recap to assess the learning of previous day .</p> <ol style="list-style-type: none"> <li>1. What is the divisibility rule of 4?</li> <li>2. What is the divisibility rule of 8?</li> </ol> <p><b>Discussion of topic through Collaborative Learning: 15 min</b></p> |

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|                                           | <p><b>(Creativity, Collaboration)</b></p> <p>She will give sufficient practice to the students followed by Independent practice. She will explain the divisibility rule of 11 with the help of digital content</p> <p>The facilitator will give sufficient time and practice to students to attain mastery on the questions of Divisibility rules.</p> <p>She will give sufficient practice and ask students to find the missing digit so that the number is divisible by 3</p> <p>Example<br/>2345_6<br/>453_768</p> <p>She will explain the students and help them to reach to the solution.</p> <p>She will give sufficient practice and ask students to find the missing digit so that the number is divisible by 11</p> <p>Example<br/>1235_6<br/>253_768</p> <p>She will explain the students and help them to reach to the solution.</p> <p><b>Guided Practice: 15 min</b></p> <p>Students will understand the concept of Divisibility rules and will solve the questions from NCERT book Ex-3.3 in their notebook in the class with the help of their facilitator. The facilitator would take rounds and help the students in solving the questions. Guided practice followed by independent practice.</p> <p><b>Closure: 5 min</b></p> <p>Discussion of muddiest point/ Oral test.</p> |
| Resources                                 | <p>Text Book:<br/>NCERT text book for Mathematics</p> <p>Reference Book<br/>CBSE Exemplar.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Self Study, Home Work, Assignments        | <b>Independent Practice:</b> Students would do the remaining questions in their H.W. notebooks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Assessments                               | Oral test/ Independent practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>TOPIC</b>                              | <b>DAY SEVEN COMMON FACTORS AND MULTIPLES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Pre- Requisite for the course</b>      | This topic requires basic knowledge of addition , subtraction and multiplication of whole numbers which students have already learnt in previous classes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Assessment of qualifying knowledge</b> | To be able to identify the common factors and multiples of a given numbers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Objective</b>                          | To be able to understand /identify the common factors and multiples of a given numbers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Learning Outcomes</b>                  | <b>KNOWLEDGE-</b> <i>Students will be able to find common factors and multiples.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|                                                                                                                                          | <p><b><u>SKILLS and COMPETENCIES</u></b> - <i>Students would be able to</i><br/> <b>Critically apply</b> the concepts of common factors/multiples in given situations and <b>collaboratively</b> realize the importance of concept in real life.</p> <p><b>Critically</b> find and able to reason whether the given numbers are coprime or not.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Transaction Methodology</b><br><b>(The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)</b> | <p><b>Strategies used- Think pair share.</b><br/> <b>Dimensions Of Learning- D1,D2</b><br/> Transaction would proceed in the following manner-<br/> <b>Recapitulation: 5 min</b><br/> The facilitator will conduct one minute recap to assess the learning of previous day.</p> <ol style="list-style-type: none"> <li>1. What are factors?</li> <li>2. Which number is a factor of every number?</li> </ol> <p><b>Discussion of topic through Collaborative Learning: 15 min</b><br/> <b>(Creativity, Collaboration/ Think pair and share)</b></p> <p>Facilitator will ask learners to</p> <ul style="list-style-type: none"> <li>• Find the factors of 12, 15</li> <li>• Find the common factors.</li> <li>• Find the multiples first six multiples of 2, 3</li> <li>• Find the common multiple.</li> </ul> <p>She will explain the common factors/ multiples with the help of Venn diagram. She will give sufficient practice and ask students to recall the concept of common multiples and co prime numbers through a smart class. She will give them a guided practice.</p> <p><b>Guided Practice: 15 min</b><br/> Students will solve the questions from NCERT book Ex-3.4 in their notebook in the class with the help of their facilitator. The facilitator would take rounds and help the students in solving the questions. Guided practice followed by independent practice.</p> <p><b>Independent Practice:</b> Students will do the remaining parts of Ex3.4 in their homework notebooks.</p> <p><b>Closure: 5 min</b><br/> Discussion of muddiest point.</p> |
| Resources                                                                                                                                | Text Book:<br>NCERT text book for Mathematics<br>Reference Book<br>CBSE Exemplar.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Self Study, Home Work, Assignments                                                                                                       | <b>Independent Practice:</b> Students would do the given questions in their H.W. notebooks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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| Assessments                                                                                                                    | Independent practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>TOPIC</b>                                                                                                                   | <b>DAY EIGHT- PRIME FACTORISATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Pre- Requisite for the course</b>                                                                                           | This topic requires basic knowledge of Whole numbers which students have already learnt in previous classes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Assessment of qualifying knowledge</b>                                                                                      | Solving by Prime Factorization.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Objective</b>                                                                                                               | To be able to find prime factorization.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Learning Outcomes</b>                                                                                                       | .<br><u><b>KNOWLEDGE</b></u> - <i>Students will <b>develop</b> the ability to find the prime factorization.</i><br><br><u><b>SKILLS and COMPETENCIES</b></u> - <i>Students would be able to <b>critically</b> apply the concepts of factorization in real life situations.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)</b> | <b>Strategies used- Inductive deductive reasoning</b><br><b>Dimensions Of Learning- D1,D2</b><br><br>Transaction would proceed in the following manner-<br><b>Recapitulation: 5 min</b><br>The facilitator will conduct recap to assess the learning of previous day<br>1. What are co-prime numbers?<br>2. Which number is a factor of every number?<br><br><b>Discussion of topic through Collaborative Learning: 15 min</b><br>She will give sufficient practice and ask students to recall the concept of prime factorization through a digital content. She will give them a guided practice.<br><b>Guided Practice: 15 min</b><br>The students will solve the questions from NCERT book of Ex 3.5 in their notebook in the class with the help of their teacher. The teacher would ensure that each student tries to be independent at the work as well as be under the teacher's guidance.<br><b>Independent Practice:</b> Students will complete the remaining HW parts of Ex 3.5 in their homework notebook.<br><b>Closure: 5 min</b><br>A short oral test would be taken to check proper assimilation of the topic discussed. |
| Resources                                                                                                                      | Text Book:<br>NCERT text book for Mathematics<br>Reference Book<br>CBSE Exemplar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Self Study, Home Work, Assignments                                                                                             | <b>Independent Practice:</b> Students would do the given questions in their H.W. notebooks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Assessments                                                                                                                    | Oral Test/ Independent practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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| <b>TOPIC</b>                                                                                                                   | <b>DAY NINE- PRIME FACTORISATION CONTD./Properties of Divisibility Rules</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Pre- Requisite for the course</b>                                                                                           | This topic requires basic knowledge of Whole numbers which students have already learnt in previous classes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Assessment of qualifying knowledge</b>                                                                                      | Solving and verifying the important properties of divisibility.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Objective</b>                                                                                                               | To be able to find prime factorization.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Learning Outcomes</b>                                                                                                       | <p><b>KNOWLEDGE-</b> <i>Students will <b>develop</b> the ability to find the prime factorization, and will able to verify divisibility properties.</i></p> <p><b>SKILLS and COMPETENCIES</b> - <i>Students would be able to <b>critically apply</b> the concepts of factorization/ use properties of divisibility in real life situations.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)</b> | <p><b>Strategies used- Inductive deductive reasoning</b><br/> <b>Dimensions Of Learning- D1,D2</b></p> <p>Transaction would proceed in the following manner-</p> <p><b>Recapitulation: 5 min</b><br/> A quick recap can be given.</p> <p><b>Discussion of topic through Collaborative Learning: 15 min</b><br/> She will give sufficient practice and explain the various properties of divisibility.</p> <p><b>Guided Practice: 15 min</b><br/> The students will solve the questions from NCERT book of Ex 3.5 in their notebook in the class with the help of their teacher. The teacher would ensure that each student tries to be independent at the work as well as be under the teacher's guidance.</p> <p><b>Independent Practice:</b> Students will complete the remaining HW parts of Ex 3.5 in their homework notebook.</p> <p><b>Closure: 5 min</b><br/> A short oral test would be taken to check proper assimilation of the topic discussed.</p> |
| <b>Resources</b>                                                                                                               | Text Book:<br>NCERT text book for Mathematics<br>Reference Book<br>CBSE Exemplar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Self Study, Home Work, Assignments</b>                                                                                      | <b>Independent Practice:</b> Students would do the given questions in their H.W. notebooks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Assessments</b>                                                                                                             | Oral Test/ Independent practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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| <b>TOPIC</b>                                                                                                                   | <b>DAY TEN- H.C.F.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Pre- Requisite for the course</b>                                                                                           | This topic requires basic knowledge of Whole numbers which students have already learnt in previous classes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Assessment of qualifying knowledge</b>                                                                                      | To be able to identify H.C.F, of the problem by prime factorization can be used and use it in solving problems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Objective</b>                                                                                                               | To be able to understand and find H.C.F. by the prime factorization.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Learning Outcomes</b>                                                                                                       | <p><u>KNOWLEDGE</u>- <i>Students will be able to find H.C.F. by Prime factorization .</i></p> <p><u>SKILLS and COMPETENCIES</u> - <i>Students would be able to <b>Critically apply</b> the concepts of H.C.F. by prime factorization in given situations and <b>collaboratively</b> realize the importance of H.C.F.in real life.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)</b> | <p><b>Strategies used- Think pair share.</b></p> <p><b>Dimensions Of Learning- D1,D2</b></p> <p>Transaction would proceed in the following manner-</p> <p><b>Recapitulation: 5 min</b></p> <p>The facilitator will conduct one minute recap to assess the learning of previous day .</p> <p><b>RECAP</b></p> <p>If a number is divisible by 5 and 9 then it must be divisible by which other number?</p> <p>If a number is divisible by 3 and 4 then it must be divisible by which other number?</p> <p><b>Discussion of topic through Collaborative Learning: 15 min</b></p> <p><b>(Creativity, Collaboration/Think pair and share)</b></p> <p>She will give sufficient time to the students to solve the following questions independently.</p> <p>Examples: Find H.C.F. of</p> <ol style="list-style-type: none"> <li>1) 24, 36</li> <li>2) 12, 15, 18</li> </ol> <p>She will observe the class and let students discuss their findings and themselves recall the method to find H.C.F. BY VENN / PRIME FACTORIZATION METHOD. Facilitator will give them guidance and guided practice followed by independent practice.</p> <p>Students will sit in pair and together try to solve the given questions.</p> <p>The facilitator will give sufficient time and practice to students to attain mastery on the concept.</p> <p><b>Guided Practice: 15 min</b></p> <p>Students will understand the concept of H.C.F. and will solve the questions from NCERT Ex 3.6 in their notebook in the class with the help of their facilitator.</p> <p>The facilitator would take rounds and help the students in solving the questions.</p> <p>Guided practice followed by independent practice.</p> <p><b>Independent Practice:</b> Students will do the remaining parts of Ex3.6.</p> |

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|                                                                                                                                          | <b>Closure: 5 min</b><br>Discussion of muddiest point.<br>.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Resources                                                                                                                                | Text Book:<br>NCERT text book for Mathematics<br>Reference Book<br>CBSE Exemplar.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Self Study, Home Work, Assignments                                                                                                       | <b>Independent Practice:</b> Students would do the given questions in their H.W. notebooks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Assessments                                                                                                                              | Independent Practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>TOPIC</b>                                                                                                                             | <b>DAY ELEVEN WORD PROBLEMS OF HCF AND LCM</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Pre- Requisite for the course</b>                                                                                                     | This topic requires basic knowledge of Whole numbers which students have already learnt in previous classes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Assessment of qualifying knowledge</b>                                                                                                | Identifying the situations where to find H.C.F./L.C.M.S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Objective</b>                                                                                                                         | To be able to understand the situations where to find H.C.F./L.C.M.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                          | .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Learning Outcomes</b>                                                                                                                 | <b>KNOWLEDGE-</b> <i>Students will <b>develop</b> the ability to find H.C.F/L.C.M.</i><br><br><b>SKILLS and COMPETENCIES –</b><br><i>Students would be able to <b>critically</b> apply the concepts of H.C.F/L.C.M for solving problems.</i><br><i>Compare and realize the importance of H.C.F./L.C.M. in real life</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Transaction Methodology</b><br><b>(The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)</b> | <b>Strategies used- Inductive deductive reasoning</b><br><b>Dimensions Of Learning- D1,D2</b><br><br>Transaction would proceed in the following manner-<br><b>Recapitulation: 5 min</b><br>The facilitator will conduct recap to assess the learning of previous day.<br><br>1What will be the H.C.F. of two prime numbers?<br>2. What will be the H.C.F. of two consecutive numbers?<br><b>Discussion of topic through Collaborative Learning: 15 min</b><br><br>She will explain the real world examples where the concept of H.C.F. and L.C.M. is used with the help of smart class. Facilitator will give them guidance and guided practice followed by independent practice.<br><br><b>Guided Practice: 15 min</b><br>The students will solve the questions from NCERT book of Ex 3.7in their notebook in the class with the help of their teacher. The teacher would ensure |

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|                                                                                                                                | that each student tries to be independent at the work as well as be under the teacher's guidance.<br><b>Independent Practice:</b> Students will complete the remaining HW parts given of Ex 3.7 in their Math HW notebook.<br><b>Closure: 5 min</b><br>A short oral test would be taken to check proper assimilation of the topic discussed.                                                                                                                                                                                                                                                                                                               |
| Resources                                                                                                                      | Text Book:<br>NCERT text book for Mathematics<br>Reference Book<br>CBSE Exemplar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Self Study, Home Work, Assignments                                                                                             | <b>Independent Practice:</b> Students would do the given questions in their H.W. notebooks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Assessments                                                                                                                    | Independent Practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>TOPIC</b>                                                                                                                   | <b>DAY TWELVE APPLICATIONS OF HCF AND LCM</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Pre- Requisite for the course</b>                                                                                           | This topic requires basic knowledge of Whole numbers which students have already learnt in previous classes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Assessment of qualifying knowledge</b>                                                                                      | Identifying the situations where to find H.C.F./L.C.M.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Objective</b>                                                                                                               | To be able to attain mastery on H.C.F./L.C.M.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                | .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Learning Outcomes</b>                                                                                                       | <u><b>AFFECTIVE-</b></u> <i>Students will <b>attain the mastery</b> on H.C.F/L.C.M.</i><br><br><u><b>SKILLS and COMPETENCIES</b></u> –<br><i>Students would be able to <b>critically apply</b> the concepts of H.C.F/L.C.M for solving problems.</i><br><i>Compare and realize the importance of H.C.F./L.C.M. in real life</i>                                                                                                                                                                                                                                                                                                                            |
| <b>Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)</b> | <b>Strategies used- Inductive deductive reasoning</b><br><b>Dimensions Of Learning- D1,D2</b><br><br>Transaction would proceed in the following manner-<br><b>Recapitulation: 5 min</b><br>A quick recap can be given.<br><b>Discussion of topic through Collaborative Learning: 15 min</b><br><br>She will explain the real world examples where the concept of H.C.F. and L.C.M., will guide them and guided practice followed by independent practice.<br><br><b>Guided Practice: 15 min</b><br>The students will solve the questions from NCERT book of Ex 3.7 in their notebook in the class with the help of their teacher. The teacher would ensure |

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|                                    | <p>that each student tries to be independent at the work as well as be under the teacher's guidance.</p> <p><b>Independent Practice:</b> Students will complete the remaining HW parts given of Ex 3.7 in their Math HW notebook.</p> <p><b>Closure: 5 min</b></p> <p>A short oral test would be taken to check proper assimilation of the topic discussed.</p> |
| Resources                          | <p>Text Book:<br/>NCERT text book for Mathematics</p> <p>Reference Book<br/>CBSE Exemplar</p>                                                                                                                                                                                                                                                                   |
| Self Study, Home Work, Assignments | <p><b>Independent Practice:</b> Students would do the given questions in their H.W. notebooks.</p>                                                                                                                                                                                                                                                              |
| Assessments                        | <p>Independent Practice.</p>                                                                                                                                                                                                                                                                                                                                    |