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| <b>Class: VII</b>                                    | <b>Subject: Mathematics</b>                                                                                                                                                                                                                                                                | <b>Day:1</b> | <b>Time duration:40 min</b> |
| <b>Name of the lesson/ unit</b>                      | Data handling                                                                                                                                                                                                                                                                              |              |                             |
| <b>Topic/lesson</b>                                  | Mean, Range                                                                                                                                                                                                                                                                                |              |                             |
| <b>Learning Objective</b>                            | To be able to solve problems based on Mean , Mode ,Meadian and able to draw bar graphs. To understand probability.                                                                                                                                                                         |              |                             |
| <b>Expected learning outcomes:</b>                   | Student will be able to :- <ul style="list-style-type: none"><li>Recall the term average.</li><li>Define Data</li><li>State the measure of Central Tendency(Mean)</li><li>Compute the mean ( or average)</li><li>Interpret the data through organising , finding mean and range.</li></ul> |              |                             |
| <b>Common misconception (if any):</b>                | <ul style="list-style-type: none"><li>Differentiation between mean and average</li><li>Incorrect arrangement of the data(ascending or descending order)</li></ul>                                                                                                                          |              |                             |
| <b>Prerequisite knowledge:</b>                       | Knowledge of Data and Average of data                                                                                                                                                                                                                                                      |              |                             |
| <b>Assessment of qualifying knowledge:</b>           | Add & subtraction fractions(Board test & oral)                                                                                                                                                                                                                                             |              |                             |
| <b>Transaction methodology</b>                       |                                                                                                                                                                                                                                                                                            |              |                             |
| <b>Starter/ warm up: Questioning(Verbal) (3 Min)</b> | Teacher will ask oral questions like this-<br><br>Average score of a Cricketer is 61 runs and then teacher will ask:<br><br>Q.1- What is the meaning of this term average?<br><br>Q.2- How to calculate average?                                                                           |              |                             |
| <b>VIDEO:10 MIN</b>                                  | Flipped video will be shown<br><br>Teacher will collect responses and use their previous knowledge of average(Mean).                                                                                                                                                                       |              |                             |

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| <p><b>Questioning followed by Explanation on the board: Notes would be provided (Explanation &amp; Discussion among peers): 10 min</b></p> <p><i>Peer discussion and Note book work followed by discussion by teacher on the board: 10 min</i></p> <p><i>Independent work followed by discussion on board, students will be called on board to solve the questions: 10 min</i></p> | <p><b>Mean : Arithmetic Mean or Mean</b> of a given data is defined as the sum of all the values of the data divided by the total number of values.<br/> <math display="block">\text{Mean} = \frac{\text{Sum of all observations}}{\text{Total number of observations}}</math> <b>RANGE :</b><br/> Range of data (or spread of the data) = Highest value – Lowest value</p> <p><i>Students will discuss Questions in Notebook and teacher mentor the learners on the way.</i><br/> Teacher will ask the students to solve on the board .</p> <p><u>Students will do Questions independently on their own in the notebook</u> and teacher will ask the students to solve on the board .</p> |
| <b>Closure/ Plenary (Think Pair and Share) N.B: (2 Min)</b>                                                                                                                                                                                                                                                                                                                        | <i>Teacher will collect the responses and discuss the correct answers.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Home Learning</b>                                                                                                                                                                                                                                                                                                                                                               | From book Assignment will be given                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Resources</b>                                                                                                                                                                                                                                                                                                                                                                   | NCERT Book of Mathematics for Class VII<br>Flipped video                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |



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| <b>Class: VII</b>               | <b>Subject: Mathematics</b>                                                                                        | <b>Day: 2</b> | <b>Time duration: 40 min</b> |
| <b>Name of the lesson/ unit</b> | Ch-3 Data handling                                                                                                 |               |                              |
| <b>Topic/lesson</b>             | 1. Mode<br>2. Median of odd number of terms                                                                        |               |                              |
| <b>Learning Objective</b>       | To be able to solve problems based on Mean , Mode , Median and able to draw bar graphs. To understand probability. |               |                              |

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| <b>Expected learning outcomes:</b>                                                                                                                                                                                               | Student will be able to <ul style="list-style-type: none"> <li>• Identify and Compute Mode of given ungrouped data</li> <li>• Identify and Compute Median of odd numbers.</li> <li>• State the measure of Central Tendency (Mode &amp; Median)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Common misconception (if any):</b>                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>• Incorrect arrangement of the data (ascending or descending order)</li> <li>• Identifying wrong number of terms.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Prerequisite knowledge:</b>                                                                                                                                                                                                   | Knowledge of Data and Average of data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Assessment of qualifying knowledge:</b>                                                                                                                                                                                       | Add & subtraction fractions (Board test & oral)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Transaction methodology</b>                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Starter/ warm up: Questioning(Verbal) (5 Min)</b>                                                                                                                                                                             | Teacher will ask oral questions like the following<br><br>A shoes showroom is selling 10 pairs of shoes of a design. 2 pairs of size 4, 5 pairs of size 5, 2 pairs of size 6 and one pair of size 7.<br><br>Q.1 Should the shopkeeper purchase all the sizes in same number?<br><br>Q.2- Which size he should purchase in maximum number?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Questioning , discussion &amp; Explanation(Note Book):3min</b><br><br><b>Independent work by students in their notebooks , Teacher will mentor :10 min</b><br><b>Questioning , discussion &amp; Explanation(Verbal):5 min</b> | Teacher will collect the responses and discuss the steps of identifying Mode.<br><br><b>Def- The mode of a set of numbers is the number which occurs most frequently in the set.</b><br><br><u>Students will do Questions based on MODE in their notebook.</u><br>Teacher will record the answer on the board given by students.<br>Teacher will take small quiz (few daily life example) related to Mean to introduce Median.<br><br>Teacher will collect the responses and discuss the steps of identifying Median.<br><br>If a set of data contains a few very high scores or very low scores, the mean does not Satisfactorily represent the data. In situations such as these it is often more desirable to use the middle score, called the median, as representative of central tendency.<br><br><b>Def- The median of a set of numbers is the middle number when all the numbers are arranged in order of size, i.e., in descending or ascending order.</b><br><br><b>For odd numbers of term</b> |

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| <b>Peer discussion and Note book work followed by discussion by teacher on the board:15 min</b> | Median= $\left(\frac{n+1}{2}\right)^{th}$ term<br><br><i>Students will do Questions based on Median after discussing with their peer and then do it in their notebook.<br/>Teacher will record the answer on the board given by students.</i> |
| <b>Closure/ Plenary(Think Pair and Share) N.B: (2 Min)</b>                                      | <i>Teacher will collect the responses and discuss the correct answers.</i>                                                                                                                                                                    |
| <b>Home Learning</b>                                                                            | From book Assignment will be given                                                                                                                                                                                                            |
| <b>Resources</b>                                                                                | NCERT Book of Mathematics for Class VII                                                                                                                                                                                                       |



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| Class: VII                                    | Subject: Mathematics                                                                                                                                                       | Day:3 | Time duration:40 min |
| Name of the lesson/ unit                      | Ch-3 Data handling                                                                                                                                                         |       |                      |
| Topic/lesson                                  | Median of even number of terms.                                                                                                                                            |       |                      |
| Learning Objective                            | To be able to solve problems based on Mean , Mode ,Meadian and able to draw bar graphs. To understand probability.                                                         |       |                      |
| Expected learning outcomes:                   | Student will be able to <ul style="list-style-type: none"><li>Identify and Compute Median of even numbers.</li><li>State the measure of Central Tendency(Median)</li></ul> |       |                      |
| Common misconception (if any):                | <ul style="list-style-type: none"><li>Incorrect arrangement of the data(ascending or descending order)</li><li>Identifying wrong number of terms</li></ul>                 |       |                      |
| Prerequisite knowledge:                       | Knowledge of Data and Average of data                                                                                                                                      |       |                      |
| Assessment of qualifying knowledge:           | Add & subtraction fractions(Board test & oral)                                                                                                                             |       |                      |
| Transaction methodology                       |                                                                                                                                                                            |       |                      |
| Starter/ warm up: Questioning(Verbal) (5 Min) | Oral question will be asked related to median of odd numbers to initiate the topic.                                                                                        |       |                      |



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| <b>Class: VII</b>                                                                                                                                                                      | <b>Subject: Mathematics</b>                                                                                                                                                                                                                                                          | <b>Day:4</b> | <b>Time duration:40 min</b> |
| <b>Name of the lesson/ unit</b>                                                                                                                                                        | Ch-3 Data handling                                                                                                                                                                                                                                                                   |              |                             |
| <b>Topic/lesson</b>                                                                                                                                                                    | Double Bar Graph                                                                                                                                                                                                                                                                     |              |                             |
| <b>Learning Objective</b>                                                                                                                                                              | To be able to solve problems based on Mean , Mode ,Median and able to draw bar graphs. To understand probability.                                                                                                                                                                    |              |                             |
| <b>Expected learning outcomes:</b>                                                                                                                                                     | Student will be able to <ul style="list-style-type: none"><li>• Draw double Bar graph.</li><li>• Interpret the double bar graph</li><li>• Use of double bar graph</li></ul>                                                                                                          |              |                             |
| <b>Common misconception (if any):</b>                                                                                                                                                  | <ul style="list-style-type: none"><li>• Inappropriate scale</li><li>• Inappropriate labelling of x and y axis</li><li>• Inappropriate spacing between two bars</li></ul>                                                                                                             |              |                             |
| <b>Prerequisite knowledge:</b>                                                                                                                                                         | Knowledge of Data and Average of data                                                                                                                                                                                                                                                |              |                             |
| <b>Assessment of qualifying knowledge:</b>                                                                                                                                             | Add & subtraction fractions(Board test & oral)                                                                                                                                                                                                                                       |              |                             |
| <b>Transaction methodology</b>                                                                                                                                                         |                                                                                                                                                                                                                                                                                      |              |                             |
| <b>Starter/ warm up: Questioning(Verbal) (5Min)</b>                                                                                                                                    | Teacher will ask the few questions like following to initiate the topic:<br><b>Q.1- What is the use of pictorial presentation?</b><br><br><b>Q.2- In how many ways we may present data?</b><br><br><b>Q.3- How can we combine two data in one presentation?</b>                      |              |                             |
| <b>Using prior knowledge Questioning &amp; discussion(Verbal):3 min</b><br><br><b>Video : 5 Min</b><br><br><b>Questioning followed by Explanation on the board (Book Work) : 5 min</b> | Teacher will ask few questions to initiate the topic-<br>Q. What are axis?<br>Q. How to choose scale for given data?<br><br>Flipped video will be shown based on drawing of double bar graph.<br><br><i>Students will do Questions after discussing with their peer in the book.</i> |              |                             |

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| <p>(Explanation &amp; Discussion among peers)</p> <p>Demonstration followed by peer discussion and notebook work(graph) :10 min</p> <p>(Explanation ,Discussion&amp; notebook work)</p> <p>Independent work by students in their Notebook (graph):10 min (Peer Checking)</p> | <p>Teacher will explain how to draw a double bar graph and ask students to discuss and they will do questions in their notebook using graph.</p> <p><u>Students will do Questions from book after discussing with their peer and then do it in their notebook.</u></p> <p><i>Teacher will record the answer on the board given by students.</i></p> |
| Closure/ Plenary(Think Pair and Share) N.B: (2 Min)                                                                                                                                                                                                                          | <i>Teacher will collect the responses and discuss the correct answers.</i>                                                                                                                                                                                                                                                                          |
| Home Learning                                                                                                                                                                                                                                                                | From book Assignment will be given                                                                                                                                                                                                                                                                                                                  |
| Resources                                                                                                                                                                                                                                                                    | NCERT Book of Mathematics for Class VII                                                                                                                                                                                                                                                                                                             |



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| <b>Class: VII</b>                  | <b>Subject: Mathematics</b>                                                                                                                                  | <b>Day:5</b> | <b>Time duration:40 min</b> |
| <b>Name of the lesson/ unit</b>    | Ch-3 Data handling                                                                                                                                           |              |                             |
| <b>Topic/lesson</b>                | Probability                                                                                                                                                  |              |                             |
| <b>Learning Objective</b>          | To be able to solve problems based on Mean , Mode ,Meadian and able to draw bar graphs. To understand probability.                                           |              |                             |
| <b>Expected learning outcomes:</b> | <ul style="list-style-type: none"> <li>To understand the meaning of chance and possible outcome</li> <li>To understand the meaning of probability</li> </ul> |              |                             |

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| Common misconception (if any):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Not able to differentiate between chance and probability                               |  |  |
| Prerequisite knowledge:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| Assessment of qualifying knowledge:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Transaction methodology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| Starter/ warm up: Questioning(Verbal) (2 Min)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Oral questions related to daily life will be asked about chance and possible outcomes. |  |  |
| Introduction by teacher by activity :5 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