

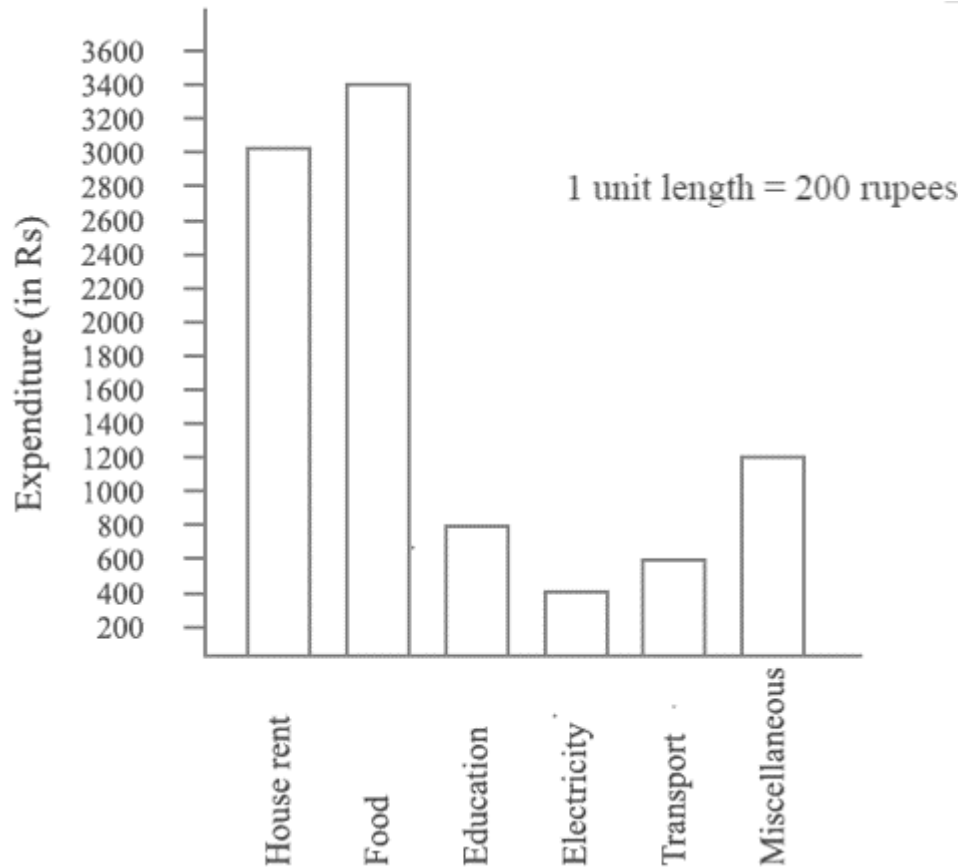
**DELHI PUBLIC SCHOOL GHAZIABAD**  
**CLASS – VI**  
**LESSON PLAN**  
**CHAPTER-9 DATA HANDLING**

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| Unit                                                                                                                                               | Ch- 9 Data Handling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Class<br>Transaction                                                                                                                               | Total: 5 periods (approx. 40 min each)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Pre-requisite<br>for the course                                                                                                                    | This lesson requires <ol style="list-style-type: none"> <li>1. Basic knowledge of collection of data .</li> <li>2. Knowledge of organizing the data.</li> <li>3. Knowledge of reading a pictograph.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                  |
| Assessment of<br>qualifying<br>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 would be able to understand the term data and the need of collection of data, to develop the skill of recording, organizing and representing data graphically as bar graph and then interpret information from the graphs. Understand and interpret the pictograph , and to apply the knowledge in solving the problems, thereby inculcating competencies like <b>communication, character, collaboration, critical thinking, citizenship and creativity</b>                                                                                                           |
| Learning<br>Outcomes                                                                                                                               | <p><u>KNOWLEDGE</u>- <i>Students will <b>develop</b> the ability to</i></p> <ol style="list-style-type: none"> <li>1. Collect data.</li> <li>2. Present data.</li> <li>3. Prepare tally mark table</li> <li>4. Draw and interpret pictograph</li> <li>5. Graphical representation of data-bar graph</li> </ol> <p><u>SKILLS and COMPETENCIES</u>- <i>Students would be able to</i></p> <ol style="list-style-type: none"> <li>1. Represent data on graph.(<b>Creativity</b>)</li> <li>2. Collect the data <b>critical thinking and collaboration in the process.</b></li> </ol> |
| Transaction<br>Methodology<br>(The teacher<br>can use the<br>mentioned<br>techniques,<br>wherever<br>applicable, and<br>can use any<br>other too.) | <p>Strategies Used- <b>Graphic Organizers, Inductive deductive reasoning, think pair share, muddiest point discussion</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>                               |

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|                                          | <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><br/> Quiz<br/> Daily Practice Problem<br/> MCQ<br/> Peer Assessment<br/> Case Studies<br/> Lab Activities<br/> Any Other</p>                                                                                                                                                                                                                                            |
| Resources                                | Text Book:<br>NCERT text book for Mathematics<br>Reference Book<br>CBSE Exemplar                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Self Study,<br>Home Work,<br>Assignments | <p><b>Independent Practice:</b> Students would do the given questions in their H.W. notebooks.</p> <p>H.W. notebooks to be marked as per the given plan:<br/> <i>Assessment Parameters:</i> The total marks for the activity is 5 marks<br/> On time submission.....1 mark<br/> Presentation/ Neatness.....1 mark<br/> Content.....3 marks</p> <p>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.</p> |
| 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<br/> <b>HALF YEARLY EXAMINATION</b> 80 Marks<br/> <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 05 Marks</li> <li>Lab Practical (Subject Enrichment) 05 Marks</li> </ul> <p>Through lab Practical Students are assessed for <b>Collaboration, Character building</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>                                                                                                                                                                                                                                                                                                                    |

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|                      | <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 QUESTIONS | <p><b>Q2. Fill in the blanks:</b></p> <p>(a) Data in the form of number is called _____ data.</p> <p>(b) Two of the simplest ways of organising data are _____ and _____ .</p> <p>(c) Representing data in the form of pictures is called _____.</p> <p>(d) The data collected directly from the source is called _____.</p> <p>(e) When the data is collected _____</p> <p>(f) from an external source , it is called _____.</p> <p><b>Q3. Answer the following:</b></p> <p>(i) If one  represents 5 children, then how many symbols are required to represent 85 children?</p> <p>(ii) What do we call the horizontal axis of the graph?</p> <p>(iii) What do we call the vertical axis of the graph?</p> |

**Q4.** The below bar graph shows the monthly expenditure of Rajesh family on various household item

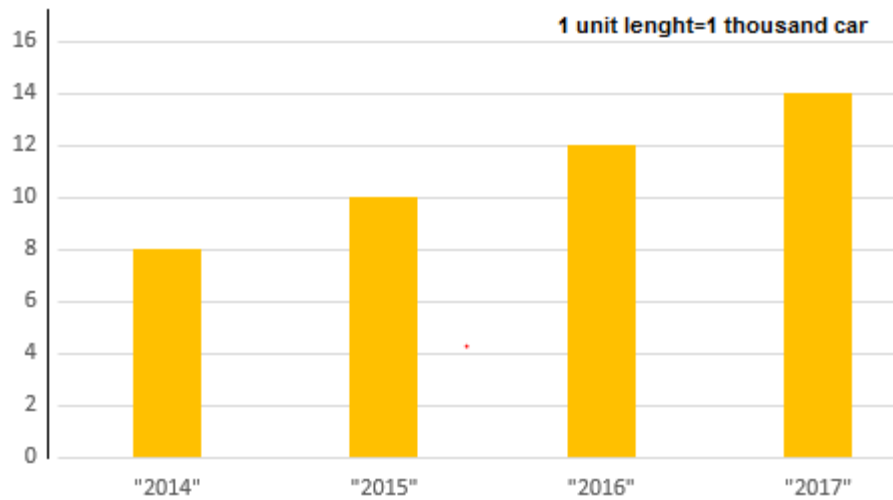


- a) Which item is taking the maximum expenditure?
- b) which item is taking the least expenditure?
- c) How much Rajesh spent on Food and transport?

**Q5.** True and false statement

- a) In a bar graph, the width of bars may be unequal.
- b) In a bar graph, bars of uniform width are drawn horizontally only.
- c) In a bar graph, the gap between two consecutive bars may not be the same.
- d) In a bar graph, each bar (rectangle) represents only one value of the numerical data

**Q6.** The below graph shows the total car in Bangalore city from 2014 to 2017



a) what is the increase in total car from year 2015 to 2017

b) which year has the minimum

Q7. The number of members in 20 families are given below:

4, 6, 5, 5, 4, 6, 3, 3, 5, 5, 3, 5, 4, 4, 6, 7, 3, 5, 5, 7

Represent the above data using tally marks.

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| <b>DAY</b>                                                                                                                        | <b>ONE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Objective</b>                                                                                                                  | <b>Enhance</b> ability to accurately recognize and use appropriate terminology related to collection and representation of data and developing the art of <b>communication and critical thinking</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Assessment of qualifying knowledge</b>                                                                                         | Quiz and knowledge testing on data and frequency table and central tendency.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Learning Outcomes</b>                                                                                                          | <p><b>KNOW-KNOWLEDGE:</b> Specific use of the terminology used for data handling.</p> <p><b><u>SKILLS and COMPETENCIES</u> : Critical Thinking and Problem Solving</b> : - Effectively analyzes and evaluates major alternative points of view, Effectively identifies and ask significant questions that clarify various points of view and leads to better solutions (Makes judgments and decisions, solve problems)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Transaction Methodology</b><br>(The teacher can use the mentioned techniques, wherever applicable, and can use any other too.) | <p>Strategies Used- <b>Graphic Organizers, Inductive deductive reasoning</b></p> <p>Transaction would proceed in the following manner-</p> <p><b>Anticipatory Set: 10 min</b></p> <p>Facilitator will ask few questions to introduce the topic</p> <ul style="list-style-type: none"> <li>• What is data?</li> <li>• What are the different ways of collecting data?</li> <li>• What are the different ways of representing data?</li> </ul> <p><b>Discussion of topic through Collaborative Learning: 15 min</b></p> <p><b><u>Inquiry based learning</u></b> (Critical Thinking and Problem Solving)</p> <p><b>Guided practice: 10 min</b></p> <p>The facilitator introduces the chapter by the Class Activity of Collecting information about the student (<b>Collaboration</b>)</p> <ul style="list-style-type: none"> <li>- residents of different areas</li> <li>- Arranging the information i.e. Data in tabular form using tally bars to find the frequency</li> </ul> <p><b>Independent practice:</b> The facilitator would take rounds and help the students in solving the questions.</p> <p><b>Closure: 5 min</b></p> <p>A short oral test would be taken to check proper assimilation of the topic discussed. (<b>Graphic Organizers</b>)</p> |
| <b>Resources</b>                                                                                                                  | <p>Text Book:</p> <p>NCERT text book for Mathematics</p> <p>Reference Book</p> <p>CBSE Exemplar</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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| Self Study, Home Work, Assignments | <b>Independent Practice:</b> Students would do the given questions in their H.W. notebooks. |
| Assessments                        | Oral Test (5 minutes)                                                                       |

| DAY                                                                                                                               | TWO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Objective</b>                                                                                                                  | <b>Enhance</b> ability to accurately recognize and use appropriate terminology related to collection and representation of data and developing the art of <b>communication and critical thinking</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Assessment of qualifying knowledge</b>                                                                                         | Quiz and knowledge testing on data and frequency table and central tendency.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Learning Outcomes</b>                                                                                                          | <p><b>KNOW-KNOWLEDGE:</b> Specific use of appropriate terminology related to collection and representation of data .</p> <p><b><u>SKILLS and COMPETENCIES</u> : Critical Thinking and Problem Solving :</b> - Effectively analyzes and evaluates major alternative points of view, Effectively identifies and ask significant questions that clarify various points of view and leads to better solutions (Makes judgments and decisions, solve problems)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Transaction Methodology</b><br>(The teacher can use the mentioned techniques, wherever applicable, and can use any other too.) | <p>Strategies Used- <b>Inductive deductive reasoning, think pair share</b></p> <p>Transaction would proceed in the following manner-</p> <p><b>Anticipatory Set: 10 min</b><br/>Facilitator will ask few questions to introduce the topic:</p> <ul style="list-style-type: none"> <li>• What is data?</li> <li>• What are the different ways of collecting data?</li> </ul> <p><b>Discussion of topic through Collaborative Learning: 15 min</b><br/><b><u>Inquiry based learning</u> (Critical Thinking and Problem Solving)</b><br/>Pictograph will be introduced by telling the students to sit in groups and write the hours they put in school, for homework, for playing, for watching TV, for sleeping and then they will be explained to make the pictograph for the same. <b>(Collaboration)</b></p> <p><b>Guided practice:</b> 10 min</p> <p>Students would be asked to collect and represent data as pictograph. The facilitator would take rounds and ensure that each learner is engaged.</p> <p>The students will go through Examples of NCERT book, in the class with the help of their facilitator. The facilitator would take rounds and help the students.</p> |

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|                                    | <b>Independent Practice:</b> Students will do Questions of NCERT text book.<br><b>Closure: 5 min</b><br>A short oral test would be taken to check proper assimilation of the topic discussed. ( <b>Jigsaw</b> ) |
| 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 (5 minutes)                                                                                                                                                                                           |

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| <b>DAY</b>                                                                                                                        | <b>THREE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Objective</b>                                                                                                                  | <b>Enhance</b> ability to accurately recognize and use appropriate terminology related to collection and representation of data and developing the art of <b>communication and critical thinking</b> .                                                                                                                                                                                                                                                                                                                                              |
| <b>Assessment of qualifying knowledge</b>                                                                                         | Quiz and knowledge testing on data and frequency table and central tendency.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Learning Outcomes</b>                                                                                                          | <b>KNOW-KNOWLEDGE:</b> Specific use of appropriate terminology related to collection and representation of data.<br><b><u>SKILLS and COMPETENCIES</u> : Critical Thinking and Problem Solving</b> : - Effectively analyzes and evaluates major alternative points of view, Effectively identifies and ask significant questions that clarify various points of view and leads to better solutions (Makes judgments and decisions, solve problems)                                                                                                   |
| <b>Transaction Methodology</b><br>(The teacher can use the mentioned techniques, wherever applicable, and can use any other too.) | Strategies Used- <b>Graphic Organizers, Inductive deductive reasoning</b><br>Transaction would proceed in the following manner-<br><b>Anticipatory Set: 10 min</b><br>Facilitator will ask few questions to introduce the topic <ul style="list-style-type: none"> <li>• What is data?</li> <li>• What are the different ways of collecting data?</li> <li>• How to represent data?</li> </ul><br><b>Discussion of topic through Collaborative Learning: 15 min</b><br><b><u>Inquiry based learning</u> (Critical Thinking and Problem Solving)</b> |

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|                                    | <p>Students would be asked to collect and represent data. The facilitator would take rounds and ensure that each learner is engaged.</p> <p><b>Guided practice: 10 min</b></p> <p>. The facilitator would take rounds and help the students in solving the questions followed by independent practice.</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:</p> <p>NCERT text book for Mathematics</p>                                                                                                                                                                                                                                                                                                                                                                             |
| Self Study, Home Work, Assignments | <b>Independent Practice:</b> Students would do the given questions in their H.W. notebooks.                                                                                                                                                                                                                                                                                                                                          |
| Assessments                        | Oral Test (5 minutes)                                                                                                                                                                                                                                                                                                                                                                                                                |

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| <b>DAY</b>                                                                                                                     | <b>FOUR</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Objective</b>                                                                                                               | <b>Enhance</b> ability to accurately recognize and use appropriate terminology related to collection and representation of data and developing the art of <b>communication and critical thinking</b> .                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Assessment of qualifying knowledge</b>                                                                                      | Quiz and knowledge testing on data and tally marks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Learning Outcomes</b>                                                                                                       | <p><b>KNOW-KNOWLEDGE:</b> Specific use of appropriate terminology related to collection and representation of data .</p> <p><b><u>SKILLS and COMPETENCIES</u> : Critical Thinking and Problem Solving</b> : - Effectively analyzes and evaluates major alternative points of view, Effectively identifies and ask significant questions that clarify various points of view and leads to better solutions (Makes judgments and decisions, solve problems)</p>                                                                                                                                   |
| <b>Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)</b> | <p>Strategies Used- <b>Muddiest point discussion</b></p> <p>Dimensions of learning- <b>D3</b></p> <p>Transaction would proceed in the following manner-</p> <p><b>Anticipatory Set: 10 min</b></p> <p>Facilitator will ask few questions to introduce the topic</p> <ul style="list-style-type: none"> <li>• What is data?</li> <li>• What are the different ways of collecting data?</li> <li>• How to represent data?</li> </ul> <p><b>Discussion of topic through Collaborative Learning: 15 min</b></p> <p><b><u>Inquiry based learning</u></b> (Critical Thinking and Problem Solving)</p> |

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|                                    | <p>Students would be asked to collect, represent and compare data. The facilitator would take rounds and ensure that each learner is engaged.</p> <p><b>Guided practice: 10 min</b></p> <p>The students will do Questions from NCERT book, 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.</p> <p><b>Independent Practice:</b> Students will do Questions of NCERT text book.</p> <p><b>Closure: 5 min</b></p> <p>A short oral test would be taken to check proper assimilation of the topic discussed. <b>(Think pair share)</b></p> |
| Resources                          | Text Book: NCERT text book for Mathematics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Self Study, Home Work, Assignments | <b>Independent Practice:</b> Students would do the given questions in their H.W notebooks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Assessments                        | Oral Test (5 minutes)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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| <b>DAY</b>                                                                                                                        | <b>SIX</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Objective</b>                                                                                                                  | <b>Enhance</b> ability to accurately recognize and use appropriate terminology related to collection and representation of data and developing the art of <b>communication and critical thinking</b> .                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Assessment of qualifying knowledge</b>                                                                                         | Quiz and knowledge testing on data and tally marks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Learning Outcomes</b>                                                                                                          | <p><b>KNOW-KNOWLEDGE:</b></p> <p><b><u>SKILLS and COMPETENCIES:</u> Critical Thinking and Problem Solving</b> : - Effectively analyzes and evaluates major alternative points of view, Effectively identifies and ask significant questions that clarify various points of view and leads to better solutions (Makes judgments and decisions, solve problems)</p>                                                                                                                                                                                                                               |
| <b>Transaction Methodology</b><br>(The teacher can use the mentioned techniques, wherever applicable, and can use any other too.) | <p>Strategies Used- <b>Muddiest point discussion</b></p> <p>Dimensions of learning- <b>D3</b></p> <p>Transaction would proceed in the following manner-</p> <p><b>Anticipatory Set: 10 min</b></p> <p>Facilitator will ask few questions to introduce the topic</p> <ul style="list-style-type: none"> <li>• What is data?</li> <li>• What are the different ways of collecting data?</li> <li>• How to represent data?</li> </ul> <p><b>Discussion of topic through Collaborative Learning: 15 min</b></p> <p><b><u>Inquiry based learning (Critical Thinking and Problem Solving)</u></b></p> |

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|                                    | <p>Students would be asked to read the bar graph. The facilitator would take rounds and ensure that each learner is engaged.</p> <p><b>Guided practice: 10 min</b></p> <p>The students will do Questions from NCERT book, in the book in the class with the help of their facilitator. The facilitator would take rounds and help the students in solving the questions.</p> <p><b>Independent Practice:</b> Students will do Questions from NCERT text book.</p> <p><b>Closure: 5 min</b></p> <p>A short oral test would be taken to check proper assimilation of the topic discussed. (<b>Think pair share</b>)</p> |
| Resources                          | Text Book: NCERT text book for Mathematics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Self Study, Home Work, Assignments | <b>Independent Practice:</b> Students would do the given questions in their H.W. notebooks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Assessments                        | Oral Test (5 minutes)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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| <b>DAY</b>                                                                                                                     | <b>FIVE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Objective</b>                                                                                                               | <b>Enhance</b> ability to accurately recognize and use appropriate terminology related to collection and representation of data and developing the art of <b>communication and critical thinking</b> .                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Assessment of qualifying knowledge</b>                                                                                      | Quiz and knowledge testing on data and tally marks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Learning Outcomes</b>                                                                                                       | <p><b>KNOW-KNOWLEDGE:</b> Specific use of appropriate terminology related to collection and representation of data</p> <p><b><u>SKILLS and COMPETENCIES:</u> Critical Thinking and Problem Solving:</b> - Effectively analyzes and evaluates major alternative points of view, effectively identifies and ask significant questions that clarify various points of view and leads to better solutions.Makes judgments and decisions, solve problems.</p>                                                                                                                                        |
| <b>Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)</b> | <p>Strategies Used- <b>Muddiest point discussion</b></p> <p>Dimensions of learning- <b>D3</b></p> <p>Transaction would proceed in the following manner-</p> <p><b>Anticipatory Set: 10 min</b></p> <p>Facilitator will ask few questions to introduce the topic</p> <ul style="list-style-type: none"> <li>• What is data?</li> <li>• What are the different ways of collecting data?</li> <li>• How to represent data?</li> </ul> <p><b>Discussion of topic through Collaborative Learning: 15 min</b></p> <p><b><u>Inquiry based learning (Critical Thinking and Problem Solving)</u></b></p> |

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|                                    | <p>Students would be asked to draw the bar graph. The facilitator would take rounds and ensure that each learner is engaged.</p> <p><b>Guided practice: <u>10 min</u></b><br/> The students will do Q1 of Ex from NCERT book, in the book in the class with the help of their facilitator. The facilitator would take rounds and help the students in solving the questions.</p> <p><b>Independent Practice:</b> Students will do Questions of NCERT text book.</p> <p><b>Closure: <u>5 min</u></b><br/> A short oral test would be taken to check proper assimilation of the topic discussed.<br/> <b>(Think pair share)</b></p> |
| Resources                          | Text Book: NCERT text book for Mathematics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Self Study, Home Work, Assignments | <b>Independent Practice:</b> Students would do the given questions in their H.W notebooks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assessments                        | Oral Test (5 minutes)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |