

Pre-Content/content Post-Content	Learning outcomes/Objectives	
<u>Pre-Content</u>	General	Specific
Recall • Meaning & definition of DATA and STATISTICS • Collection of data • Presentation of data in the form of ungrouped frequency distribution table	Students will be able to recall the meaning of data. identify the need and use of data collection presentation of data in an organized manner	Students will be able to ✓ recall meaning of the term data and statistics ✓ identify the need and use of data, survey and statistical analysis ✓ arrange and Organise data in tabular form
<u>Content</u> • Presentation of data in the form of grouped frequency distribution table • Graphical representation of data ✓ Bar Graphs ✓ Histogram ✓ Frequency Polygon • Measures of Central Tendency ✓ Mean ✓ Median ✓ Mode	express and represent data in an organized manner represent data graphically in different forms explore different representative values	✓ represent data in the form of grouped frequency distribution table. ✓ represent data graphically in different forms ✓ create bar graphs ✓ create histograms ✓ create frequency polygons ✓ explore different representative values ✓ analyze & identify the type of representative value to be used in given situation
<u>Post-content</u> • Extra Practice Assignment	apply the knowledge of theorems in solving practical problems	✓ acquire problem solving skills by performing calculations to solve various problems

Home Work /Assignments

1. NCERT Exercise /solved examples given as home task
2. Questions from sample papers to solve
3. Selected questions from NCERT Exemplar

MONTH: DECEMBER'20

TIME: FINAL TERM

Teacher's Activity	Student's Activity	Teacher's observation and Remedial
Teacher will help them recall the terminology related to statistics discuss various aspects of representing data in graphical form and draw the appropriate graph of given data and the basic conceptual knowledge explain how to represent data in various ways discuss about different representative values in detail ANNEXURE-1 give extra practice assignment	Students will recall and recollect the terms related to statistics and represent the data in tabular form assimilate the key requirements for creating any graph and work out the given assignment followed by the exercise from NCERT participate in the discussion and further work out the given problems from NCERT calculate mean, median and mode as per the given situation and also solve problems given in the exercise ANNEXURE-1 try to solve the problems given in the assignments and in sample papers	Teacher will write her/his observations after completion of the topic

Teaching Aids : Smart board, ICR, Unit Cubes

Methodology/Innovative Methods: Discussion, Deduction, Question-Answer method, Activity , problem solving.

Interdisciplinary Links: Science

Faculty Head

Coordinator

Vice-Principal

Principal

Subject	MATHEMATICS
Class	IX
Chapter/Unit	Statistics and Probability
Topic	Statistics
Time	15 minutes
Nature of Activity	Individual

What will I learn(Learning outcome)?

To calculate mean, median and mode of the data collected

Skills:- Collecting, Organising, Calculating and Interpreting

What I have to do?

To calculate the mean , median and mode of the marks scored in pre -mid term out of 20

What do I require?

Pen and paper

What do I need to know?

Method of calculating mean, median, and mode

➤ **Teacher's Activity**

The teacher will explain the concept of calculating mean, median, and mode and ask them to collect marks scored in Mathematics Pre -mid term of all the students of the class and apply the concept on the data collected.

How will I proceed?

➤ **Student's Activity**

- Collect the marks obtained in mathematics of each student of the class
- Represent the data in tabular form in the following manner

MARKS	NUMBER OF STUDENTS
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- Calculate mean, median and mode

What have I observed

Mean marks = _____

Median = _____

Mode = _____

What have I learnt?

What am I curious to know?

Calculate the mean height of the students of your class. Also calculate the median and mode.

Let me evaluate

1.If the mean of the observations $x, 2x + 1, 2x + 5, 2x + 9$ is 30,what is the mean of last two observations_____

2. If the mode of 12, 16, 19, $16x$, 12, 16, 19, 12 is 16, then what is the value of x ?

3. Find the median of the following observations

8, 11, 6, 9, 11, 0 5, 3 , 8 , 7
