

The Palace School

Mathematics

Class – VII

Lesson Plan

Unit	Mathematics (Chapter - 3 :Data Handling)
Class Transaction	Total: 2 periods (approx. 40 min. each)
Topic	Arithmetic mean
Objective	Introduction to the concept of Measures of Central tendency and to draw inferences from them so that it becomes easy to understand and interpret.
Pre-requisite Knowledge	Students must have the knowledge of collection and tabular representation of data, learnt in previous classes.
Learning Outcomes	<u>Knowledge:</u> Students will be able to: ● Collect the data keeping in mind the specific information required. ● Organise the data in a form that is easy to understand and interpret. ● To get an idea about range of data by taking highest and lowest observations into consideration. ● To evaluate the mean of given data. <u>Skills:</u> Critical thinking : Would mean be an appropriate representative value or not for different types of given data. Creativity : Students would be able to find out the mean for different sets of data.
Teaching Methodology	Strategies Used: The Discussion method. Brainstorming to encourage the free flow of new ideas and to improve upon from previous ideas to provide enough common background.

	Introduction of the topic- Through kinesthetic Activity where the students will be arranged in groups. Now they have to calculate • Mean height • Mean weight • Mean age of their group and to compare it with each individual of their group and with other groups of the class as well Practice Questions: NCERT questions to be discussed in the classroom. Techniques to be used: Daily routine examples like to evaluate the average of the plot numbers in the colony where the student resides. Questionnaire and quizzes to enhance the concept of mean. Curiosity Questions: • Is the mean bigger or smaller than each of the individual observations? • Can the mean be equal to any of the given observations? • What is the mean if all the observations are equal? • What happens if we increase or decrease each individual observation by same amount?
Recapitulation :	• Average is a number that represents or shows the central tendency of a group of observations or data. • Arithmetic mean is one of the representative values of data.
Assignment :	• Students will do questions from the exercise given in the textbook. • collection of different types of data and to justify whether mean is an appropriate measure of Central tendency or not, for the data.
Evaluation:	• Worksheets will be given for practice. • Revision test. • Oral quizzes.
Common Problem Zone with Remedies :	Difference between mid values and the Arithmetic mean i.e. average for a given data.
Quick Learning Tips:	Arithmetic mean = $\frac{\text{Sum of observations}}{\text{Total no. of observations}}$