

LESSON PLAN



DLF Public School
THE LEARNING ACADEMY
Managed By Darbari Lal Foundation

Class	Subject	Time slot	Lesson	Topic P1
IX	Mathematics	35 mins	Statistics	☐ Introduction ☐ Collection of Data

Expected Learning Outcome: Learners will be able to:

- 1) define the terms like STATISTICS, DATA (primary and secondary)
- 2) Collect, organize, analyse and interpret the data.

Expected skill development:

- 1) Observational skill while doing survey
- 2) Critical thinking
- 3) Procedural thinking
- 4) Communicating using mathematical terminology

FLOW OF LESSON WITH RESPECT TO TIME (Introduction/ warm-up, Content, Think Line, Closure)

<u>Pedagogy</u>	<u>Content</u>
<u>(10 mins) Warm up</u> <u>Individual work + Black Board</u> Facilitator will start with daily life examples- It becomes essential for us to know how to extract meaningful information from such data. Facilitator will ask to take their newspaper and ask them to identify at least one situation where the data collection is required. <u>This extraction of meaningful information is studied in a branch of mathematics called Statistics.</u>	Every day we come across a lot of information in the form of facts, numerical figures, tables, graphs, etc. These are provided by newspapers, televisions, magazines and other means of communication. <u>These facts or figures, which are numerical or otherwise, collected with a definite purpose are called data. Data is the plural form of the Latin word datum.</u> The word '<u>statistics</u>' has different meanings in different contexts. Learners will observe the following sentences: 1. May I have the latest copy of 'Educational Statistics of India'? 2. I like to study 'Statistics' because it is used in day-to-day life.

Thinkline

What can you conclude from the above two sentences?

Facilitator will clear that in this chapter we deal with the collection, presentation, analysis of data as well as drawing of meaningful conclusions from the data.

Learners will give mixed responses.

In the first sentence, statistics is used in a plural sense, meaning numerical data. These may include a number of educational institutions of India, literacy rates of various states, etc. In the second sentence, the word ‘statistics’ is used as a singular noun, meaning the subject which deals with the collection, presentation, analysis of data as well as drawing of meaningful conclusions from the data.

(10mins) Demonstration by Facilitator on Board

Activity1: Divide the learners into four groups and allot each group the work of collecting one of the following kinds of data:

- (i) Heights of 20 learners of your class.
- (ii) Number of absentees in each day in your class for a month.
- (iii) Number of members in the families of your classmates.

Thinkline

- ⓪ How did you collect your data?
- ⓪ Did you collect the information from each and every student, house or person concerned for obtaining the information?
- ⓪ Did you get the information from some source like available school records?

Facilitator concludes that when the information is collected by the investigator herself or himself with a definite objective in her or his mind, the data obtained is called primary data.

And when the information is gathered from a source which already has the information stored, the data obtained is called secondary data.

Proposed Questions(must include the questions asked in the classroom <u>and</u> the ones given as class-work in the notebook) Give five examples of data that you can collect from your day-to-day life and classify them as primary or secondary data.	
a) Evaluation/ Assessment: Teacher will assess the children randomly and also through student teacher interaction.	
Learners on the way How would you define DATA?	Advanced Learner How would you define the term STATISTICS?
Materials needed/ Resources:- Chalk, Duster NCERT Exemplar, NCERT Text Book	
Common Misconceptions: There is no difference between primary and secondary data.	Addressing themisconceptions: By giving different examples

- Home Assignment: Bring graph notebook and Complete Ex 14.1 in book as discussed

Teaching Methodology

- Questionnaire/ Assignment
- Discussion
- Demonstration