

SUBJECT : MATHEMATICS
CLASS : VI
TOPIC : DATA HANDLING

Pre-Content/Content/Post-Content	Learning Outcomes/Objectives	
	General	Specific
<u>PRE-CONTENT</u> - Collection of Data <u>CONTENT</u> - Organisation of Data - Pictograph - Construction of Pictographs - Bar Graph - Construction of Bar Graphs <u>POST-CONTENT</u> - Application based problem	Students will be able to ✓ collect information ✓ organize the data given ✓ interpret and analyze the pictograph ✓ construct a pictograph ✓ recognize and interpret the bar graph ✓ construct a bar graph ✓ apply the knowledge in solving HOTS	Students will be able to ✓ collect information and put it in a tabular form ✓ sort and categorize the data given so that it is easier to comprehend ✓ interpret and comprehend the pictograph ✓ construct a pictograph according to the given data ✓ recognize and interpret the given bar graph ✓ construct a bar graph according to the given data ✓ apply problem solving skills and perform the required calculations in real life problems

Home Work /Assignments:

1. NCERT exercise/solved examples given as home task.
2. Extra practice questions.

MONTH : OCTOBER'20
TIME : POST-MID TERM

Teacher's Activity	Student's Activity	Teacher's Observation and Remedial
Teacher will demonstrate an example about collection of data. helps the students to organize the given data in a tabular form using tally marks. take up a few examples and helps the students comprehend the pictograph. construct one on the board using appropriate symbols and conduct the activity on it. (Annexure-9) takes up a few examples and helps the students comprehend the bar graph. construct one on the board using the tools. give practice on application based problems.	Students will take part in the discussion and answer the questions. categorize and organize the given data in a tabular form using tally marks. comprehend the pictograph on the given data. perform the activity as per the instructions given and draw the pictograph using appropriate symbols and write their observations. (Annexure-9) comprehend the bar graph on the given data. draw the bar graph using the tools. try to solve the given problems based on real life.	Teacher will write his/her observations after the completion of the topic.

Teaching Aids: Smart board, ICR, Graph paper.

Methodology/Innovative Methods: Discussion, Brainstorming, Activity oriented.

Interdisciplinary Links: Linked with Art, Real life.

H.O.D.

Coordinator

Vice-Principal

Principal

Annexure-9

Subject	MATHEMATICS
Class	VI
Chapter/Unit	Data Handling
Topic	Pictograph
Time	30 minutes
Nature of Activity	Group

What will I learn (Learning outcome)?

To depict the data in the form of pictures through pictograph.

Skills:- Constructing, Psychomotor Coordination, Collecting, Representing, Analyzing, Interpreting

What I have to do?

To depict the given data through pictograph.

What do I require?

Bindis/stones/beads and adhesive.

What do I need to know?

Collection of Data and Concept of Pictograph.

➤ **Teacher's Activity**

Teacher will discuss about collection of data, concept of pictograph and will explain the steps of the activity.

How will I proceed?➤ **Student's Activity**

- Conduct a survey in your class regarding different modes of transport (say school bus, van, bicycle, walking) used by the students to travel to school.
- Now, after collecting the above data, analyze it carefully and choose an appropriate symbol to represent the number of students using each mode of transport.
- Then, prepare a pictograph by placing required number of bindis/stones/beads against each mode of transport on the basis of scale chosen.

What have I observed?

Complete the following table:

Modes of Transport	Number of Students
School Bus	
Van	
Bicycle	
Walking	

- Which mode of transport is used the most? _____
- Which mode of transport is used the least? _____

What have I learnt?

To depict the data in the form of pictures through _____.

What am I curious to know?

Conduct a survey in your class regarding different sports (say cricket, football, hockey, table tennis, badminton) played by the number of students and prepare a pictograph in the form of pictures.

Let me evaluate myself

- Following is the data regarding the books of different subjects read by the number of student of class VI:

$$1 \begin{array}{|c|} \hline \square \\ \hline \end{array} = 5 \text{ students}$$

Subjects	Number of students
English	      
Hindi	    
Mathematics	      
Science	        
Social Science	     

Observe the above pictograph and answer the following questions:

(a) Which subject book is read by maximum number of students?

(b) How many more students read Social Science books than Mathematics books?

(c) Which subject books were read by equal number of students?

(d) Which subject book is read by minimum number of students?

(e) How many students read English books?

2. The following are the details of number of students present in a class of 40 during a week.

Days	Number of students present
Monday	36
Tuesday	40
Wednesday	38
Thursday	32
Friday	30
Saturday	28

Draw a pictograph using one symbol (of your choice) to represent 4 students.