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# **LESSSON PLAN: 1**

School:
Class: VIII
No. of Students:
Average Age: 13+
Time: 40 min

Subject: Mathematics
Topic: Types of Graphs
Textbook: Mathematics
Teachers Name:
Date:

## **General Objectives:**

- 1. The pupils will be able to recall different Mathematics related terms, formulas, symbols, rules, principles, laws, etc.
- 2. The pupils will be able to define different Mathematics related terms.
- 3. The pupils will be able to develop Scientific attitude.
- 4. The pupils will develop powers of thinking and reasoning.
- 5. The pupils will develop a scientific and realistic attitude towards life.
- 6. The pupils will be prepared for elementary as well as higher education in different branches of science, economics, engineering, etc.
- 7. The pupils will develop an appreciation for the significance of the Scientific truth.

## **Specific Objectives:**

### (I) KNOWLEDGE:

- (i) Pupil will be able to <u>define</u> the term graph.
- (ii) Pupil will be able to recall the types of data.

(iii) Pupils will be able to <u>recall</u> data handling in tabular form.

#### (II) UNDERSTANDING:

- (i) Pupils will be able to identify different types of graphs.
- (ii) Pupils will be able analyze different graphs to obtain data.

### (III) APPLICATION:

(i) Pupil will be able to <u>represent</u> data in bar graph, pie chart and histogram.

#### (IV) SKILL:

(i) Pupils will be able to <u>draw</u> bar graph, pie chart and histogram.

# **Teaching Aids:**

- General Teaching Aids: Chalk, Duster, Blackboard, Pointer.
- Specific Teaching Aids: A chart showing different types of graphs.

## Introduction:

Steps	Teacher's Activities	Pupils' Activities
I N T R O	Entering the classroom with a smiling face, the teacher will re-arrange the classroom if necessary. To introduce the day's lesson, the teacher will ask the following questions –	The pupils will turn on their videos and greet the teacher.
U C T I O N	<ol> <li>What are data?</li> <li>How data can be represented for easy understanding?</li> <li>Have you ever seen graphs in the newspaper, television, books etc.?</li> </ol>	Pupils will try to give answers.

## **Announcement of the Topic:**

After getting the expected responses the teacher will say that – The purpose of the graph is to show numerical facts in visual form so that they can be understood quickly, easily and clearly. To learn the representation of data in graphical form we need know different types of graphs. The teacher will announce the topic and write it down the blackboard.

"TYPES OF GRAPHS"

The teacher will ask the students to note down the topic.

## **Presentation:**

Steps	Teaching Point	Teacher's Activities	Pupils' Activities	Learning Outcomes	Microteaching Skill
	1. Definition of	The teacher will say that – Data can also be presented	Pupils will	Pupils will be	Explaining
Р	Graphs: Graphs are	in the form of a table; however, a graphical	observe and	able to define	
R	visual	presentation is easier to understand. This is true in	listen	Graphs.	
E	representations of	particular when there is a trend or comparison to be	attentively.		
S	data collected.	shown. Graphs are visual representations of data			
E		collected.			
N					
Т		Then the teacher will write the definition of Graphs on			
Α		the blackboard and explain the term.			
Т			Pupils will write		Blackboard
1		<b>Graphs:</b> Graphs are visual representations of data	down the		Writing
0		collected.	definition		
N					
		To assess the students learning the teacher will ask the			
		following questions –	Pupils will try to		Questioning
		1. Why graphical representation is important?	answer		

2. Types of Graphs:	The teacher will say that – There are many types of	Pupils will listen	Pupils will be	Explaining
Some commonly	graphs to represent data. But we will only discuss some	attentively.	able to name	
used graphs are –	commonly used graphs in this class. Some commonly		the different	
(a) Bar Graph	used graphs are bar graph, pie graph, histogram and		types of	
(b) Pie Graph	line graph.		graphs	
(c) Histogram	- 0 - 1	14/10	<b>6</b> - 1	
(d) Line Graph	Then the teacher will write the types of graphs on the			
. ,	blackboard.			
	Types of Graphs: Four types of graphs are –	Pupils will note		Blackboard
	Bar Graph	down the types		Writing
	Pie Graph	of graphs.		_
	Histogram			
	Line Graph			
	Then the teacher will show the chart showing the			Demonstration
	different types of graphs to the students and ask them			
	to observe.			
	To assess the students learning the teacher will ask the			
	following questions –			
	1. Name Four types of graphs.	Pupils will try to		Questioning
		answer		
(a) A Bar Graph	The teacher will say that – A bar graph is used to show	Pupils will listen	Pupils will be	Explaining
	comparison among categories. It may consist of two or	attentively	to represent	
	more parallel vertical (or horizontal) bars (rectangles).		data in bar a	
			graph	

	After that the teacher will draw a bar graph and explain by taking an example of marks obtain by Ranu in three			Blackboard Writing
	consecutive terminal examinations.			Withing
(b) A Pie Graph or A	The teacher will say that – A pie-graph is used to	Pupils listen	Pupils will be	Explaining
Pie Chart:	compare parts of a whole. The circle represents the whole.	attentively	able to represent data in pie chart.	
	Then the teacher will explain the representation of pie			Blackboard
	chart by taking an example of the percentage of viewers			writing
	watching different types of TV channels.			
	To assess the students learning the teacher will ask the			
	following questions –			
	1. What does the circle represent in a pie graph?	Pupils will try to give answer		Questioning
(c) A Histogram:	The teacher will say that – A Histogram is a bar graph	Pupils will listen	Pupils will be	Explaining
	that shows data in intervals. It has adjacent bars over the intervals. There are no gaps between bars, because	attentively	able to represent data	
	there are no gaps between the intervals.		in histogram.	
	Then the teacher will explain the representation of data			Blackboard
	in histogram by taking an example of the distribution of weights (in kg) of 40 persons of a locality.			Writing
	weights (iii kg) of 40 persons of a locality.			

	To assess the students learning the teacher will ask the following questions –	• 5		
	1. What is the difference between a bar graph and a histogram?	Pupils will try to give answer		Questioning
(d) A Line Graph:	The teacher will say that – A line graph displays data that changes continuously over periods of time.	Pupils will listen attentively	Pupils will be able to represent data	Explaining
	Then, to show the representation of data in line graph the teacher will take an example of record of body temperature of Renu in every hour when she was sick.		in line graph.	

## **Conclusions:**

Steps	Teacher's Activities					Pupils Activities	
	The teacher will consolidate the main points with the students and will write				The students will cooperate with the		
_	_		blackboard as the	eir homework and will as	k the	teacher.	
C	students to r	note it down.					
0	Liana accentu				0		
N	Homework:			and bear success		Students will write down the horsework	
C	Q1. Represei	nt the following o	data in line graph a	and bar grapn.	7//	Students will write down the homework.	
٦٠	The number o	of days a hill side ci	ty received snow in	different years			
S		in days a rim side of	ty received show in	different years.			
Ĭ	Year	2003	2004	2005 20	006		
o	Days	8	10	5 12			
N			<u>'</u>	4/1			
	After s	tudents write, th	e teacher will than	nk the students and clos	e the virtual		
	class.						
				60			
		1124	1 O III. I	May May L	aaaa Dia	en Cliefe	
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			1/1/2				