LESSON PLAN 12						
CLASS: 9 SUBJECT: MATHEMATICS TEACHER'S NAME:						
NAME OF THE UNIT	SUB-TOPICS	PICS NO OF PERIODS REQUIRED		IRED	Time line for teaching	
	505-101105	Teaching	Practice	TOTAL	From	То
STATISTICS	GRAPHICAL REPRESENTATION OF DATA 12.1 A) BAR GRAPH B) HISTOGRAM C) FREQUENCY POLYGON	9	9	18		
	TOTAL	9	9	18		
PRE-REQUISITES & SKILLS	Every Pupil is expected to have basic l # respresentation of data in differen # co ordinate geometry, locating poi # drawing graphs on graph sheet us # basic mathematical operations .	cnowledge in t forms like pictog nts etc., ing the given data	graph, bar grap)	h, double bar g	graph, line gra	ph,pie graph etc.,

Learning Outcomes After Completion of this lesson every student will be able to # identify the differences between various graphs already known and newly learnt. # draw bar graph or histogram or frequency polygon where ever necessary . # distinguish between bar graph and a histogram. # utilize the graphs known in real life situations. # compare the variations of data reperesentated in bar graphs. # appriciate the utility of "STATISTICS" in real life sums **Teaching Learning Process INTRODUCTION /INDUCTION Experience & Reflection** # Pupils will recollect their knowledge on data handling from their Teacher introduces the chapter of STATISTICS by recalling their previous knowledge on DATA HANDLING in previous classes and utilize here to explore more deeper in Statistics. their previous classes as well as previous lessons of this class. # Students will experience the usage of the concept of Statistics Teacher briefly recapitualates all those things once that they and appreciate its usage. have learnt in their previous classes. Scale: Histogram of arrivals



EXPLICIT TEACHING/TEACHER MODELLING (I DO)	GROUP WORK (WE DO)	INDEPENDENT WORK (YOU DO)	NOTES
12.1. Graphical representation of	Pupil groups will be	Every individual will	different types of graphs in representing
data.	formed and are given	participate in the activity	data
Teacher once recalls pupils	different data sheets and	and learn the concept of	1) Bar graph
knowledge on different types of	are asked to draw bar	representing data using	2) Histogram
graphs they are familiar with from	graphs, histograms and	various graphs	3) Frequency polygon
their previous classes in the chapter	frequency polygons as		
data handling. Later teacher guides	per the suitability of the		
children in digging more deeper into	data presented in their		
the representation of data using	sheet. Here teacher		
graphs like, Bar graph, Histogram	guides children in picking		
and Frequency Polygon	the right graph and		
	drawing the graph with		
Number of students 16 35.5-40.5 15 30.5-35.5 10 40.5-45.5 9 45.5-50.5 3 50.5-55.5 2 55.5-60.5 1 2 2	teacher makes children groups to chart plore different graphs in representing data at different situations	Heads Expenditure inthousands Grocery 4 Rent 5 Education 5 Medicine 2 Fuel 2 Entertainme 1 Misc 1 10% 10%	had planned the following expenditures per month under various Expenditure in thousands
0 355-40.5 30.5-35.5	40.5-45 5 45.5-50.5 50.5-55.5 55.5-60.5	0%	■ CEpte suitute in juio a sa 106



	CHECI	K FOR UNDERSTANDING QUES	STIONS		
	 A survey conducted by an organisation for the cause of illness and death among the women between the ages 15 - 44 (in years) worldwide, found the following figures (in %); 				
	S.No.	Causes	Female fatality rate (%)	at 3	
	1.	Reproductive health conditions	31.8		
	2.	Neuropsychiatric conditions	25.4	<u>E</u>	
	3.	Injuries	12.4	3.	
1. Factual	4.	Cardiovascular conditions	-4.3	4	
	5.	Respiratory conditions	4.1	i i i i i i i i i i i i i i i i i i i	
	б.	Other causes	22.0		
	(i) Represent the information given above graphically.				
	(ii) Which condition is the major cause of women's ill health and death worldwide?				
	(iii) Try to find out, with the help of your teacher, any two factors which play a major				
	role in the cause in (ii) above being the major cause.				
	The runs below:	scored by two teams A and B on of balls Team A	the first 60 balls in a cricket Team B	match arc given	
	1	- 6 2	5		
	7 - 13	12 1 - 18 8	2		
	19	- 24 9	10		
2. Open Ended/Critical Thinking	25	-30 4 36 5	6		
	37	- 42 6	3		
	43	- 48 10	4		
	49 -	- 54 6	8		
	55 - 60 2 10				
	Represent the data of both the teams on the same graph by frequency polygons.				
	[Hint : First make the class intervals continuous.]				

	A random survey of the number of children of various age groups playing in a park was found as follows:				
	Age (in years)	Number of children			
	1 - 2	5			
	2 - 3	3			
	3 - 5	6			
	5 - 7	12			
	7 - 10	9			
	10 - 15	10			
3 Student Practice questions &	15 - 17	4	A LOCAL DE LA CALLER		
Activities	Draw a histogram to represent the data above.				
	Given below are the seats won by different political parties in the polling outcome of a state assembly elections:				
	state assembly elections:				
	Political Party A	B C D	EF		
	Political PartyASeats Won75	B C D 55 37 29	E F 10 37		
	Political PartyASeats Won75(i)Draw a bar graph to read	BCD553729epresent the polling results.	E F 10 37		
	Political PartyASeats Won75(i)Draw a bar graph to red(ii)Which political party	BCD553729epresent the polling results.won the maximum number	E F 10 37 of seats?		