LESSON PLAN 13						
TEACHER'S NA	AME :	SUBJECT: MATHEMATICS				
CLASS: 8	UNIT : INTRODUCTION TO GRAPH	łS	No.of Pe	riods:	12+13=	=25
	PERIOD ALLOTN	1ENT				
NAME OF THE		NO OF PERIODS REQUIRED			Time line for teaching	
UNIT	SUB-TOPICS	Teaching	Practice	TOTAL	From	То
INTRODUCTI ON TO GRAPHS	13.1 INTRODUCTION	1	1	2		
	13.1.1 A LINE GRAPH	3	3	6		
	13.2 SOME APPLICATIONS	3	4	7		
	TOTAL	7	8	15		
	PRE-REQUISITES OF THE LESSION		LEARNING	ουτς	OMES	
Every Pupil is expected to have basic knowledge in # basic requirements of a graph # different types of graphs like pictograph, bar graph, double bar graph and pie graph which they have already learnt in class 6th,7th and in previous lessons of 8th. # four basic operations +,-,x,÷ # skills in tabulating data # representing data on a graph # representing data on a graph					nown ting it	

TEACHING PERIOD : 1 ( PRE - REQUISITES & INTRODUCTION )					
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)	GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY ( YOU DO )		
PRE REQUISITES	Brain storming session invoving children with pre-requisites vocabulary and concepts related to previous knowledge. Introduction of new vocabulary and key words associated with the concept through questioning # Graphical presentation # Trend # Data # Comparision # pictograph # Bar graph # Double bar graph # Pie graph # numerical	* Students read the pre- requisites and answer the questions to the teacher (whole class activity)	Every Pupil will read and write the key words in their note books		
MIND MAPPING	Teacher writes the key word " INTRODUCTION TO GRAPHS" on the black board and will elict its other related words through questioning GRAPHICAL PRESENTATION TO GRAPHS DOUBLE BAR GRAPH PIE GRAPH	Hetrogeneous groups are created. One group will read the words and other will explain the meaning	Pupils individually read the keywords associated with the lesson		
RELEVANCE OF THE LESSON	Teacher conducts a discussion on the importance of the lesson through questioning 1) How will you represent data for easy reading ? 2) what type of graphs are known to you? 3) Which graph best suits to compare the performance of two companies simultaneously?	Students participate in the discussion and ask questions	Pupils individually write their responses to the questions asked		
CONCEPT MAP	Teacher displays the concept map depicting various concepts that pupil are going to learn in this lesson	Whole class read the concept map			
ASSESSMENT	Teacher poses some questions to test their knowledge on prerequisites.	every group will do the task by discussion among each other	every individual solves the task on their own		

PRACTICE PERIOD: 1					
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)	GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY ( YOU DO )		
KEY WORDS READING	Teacher writes the key words from previous class's teaching period and asks children to read and write them in note books # Graphical presentation # Trend # Data # Comparision # pictograph # Bar graph # Double bar graph # Pie graph # numerical	Students read these key words in groups and will try to give examples to each key word	Every child comes to the board and reads the key words and notes them down in their note books		
SIMILAR LINES READING	Teacher converts some exemplary data into relevent graphs like bar graph or pictograph and asks children to convert some more by watching similar lines	Each group will observe the similar lines and will frame some more by discussion	Every Individual will frame some more using similar lines		
100	Double Bar Graph	Fav	orite Subject		
85 80 59 40 20 0 Riya	Jatin Muskan Leena STUDENTS NAME	69 Mather 1 Rahul	Atto Science 36° English 44° 72° 108° French		
SUMMARY/ SYNOPSIS	Teacher writes synopsis on the board nd asks children to read, note down and practice.	pupils will note down and read the summary in groups	every individual spells and reads the summary and notes it down		
WRITING/ EDITING	Teacher conducts a dictation on key words ,pre-requisites and similar lines and asks children to exchange books for editing after writing is finished.	One group will check the writings of the other and vice versa	Slow learners are focused and teacher will ascertain that every individual learns the		

_	HING S : 2 to 4	A LINE GRAPH							
CONCEPTS/STEPS		TEACHER ACTIVITY (I DO)			GROUP ACTIVITY (WE DO)		INDIVIDUAL ACTIVITY ( YOU DO )		
KEY WORDS		Brain storming session invoving children with key words # Line graph # co ordinates # x- axis, y-axis # Data change # period of time # Linear Graph			* Students read the keywords answer the questions to the teacher (whole class activity)		Every Pupil will read and write the key words in their note books		
CONCEPTUAL UNDERSTANDING LEARNING ACTIVITY		Teacher demonstrates the process of drawing a line graph using graph board and explains the basic terminology related with the line graph through some exemplary illustrations.		Each group will understand the concepts by participation in the activity		every child learns the concept through the learning acitivity			
				r the follo 1 ºF) at di					
	тімі	E	5 A.M	8 A.M	11 A.M	2 P.M	5 P.M	8 P.M	
	tempara IN <sup>o</sup> f		40 <sup>0</sup>	50 <sup>0</sup>	60 <sup>0</sup>	60°	40 <sup>0</sup>	40 <sup>0</sup>	
	(J. u) 40 50 40 10 0 0		5:00 A.M.		1:00 2	2:00 5		8:00 P.M.	
SUMMARY		words	-	writes import res and asks c pt.	•	Pupils will n and read the in gro	e summary	Every individ the summary it down and a proced	and notes dopts the
ASSESSMENT		sectio	-	e questions fro some example ose sums		Every group sums by di among ea	scussion	Every individu the sums on t	

PRACTICE PERIODS : 2 to 4	A LINE GRAPH					
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)	GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY			
KEY WORDS READING	Teacher writes the key words from previous class's teaching period and asks children to read and write them in note books # Line graph # co ordinates # x- axis, y-axis # Data change # period of time # Linear Graph	Whole class activity : one child comes to the board and reads the key words loudly and the remaining class follows.	Every child comes to the board and reads the key words and notes them down in their note books			
SIMILAR LINES READING	Teacher plots a line graph by using some data and analyses it and asks children to analyse some more in the worksheet by watching similar lines	Each group will read the similar lines and will frame some more by discussion	Every Individual will do a few more by watcing similar lines			
90 90 90 90 90 90 90 90 90 90 90 90 90 9		Line Graph - Rain II (in mm) of AlAin city (from Janua propriate scale and draw a line gra the graph.           Average Rainfall(mm)           20           8           24           8           12             Rainfall         February     March   April	ry to May) is recorded			
SUMMARY/ SYNOPSIS	lwords and definitions and asks children to		Teacher focuses on every individual so that every child is able to			
WRITING/ EDITING	Teacher gives some questions from Exercise 13.1 and asks children to solve those sums and teacher checks the writings of children	One group will check the writings of the other and vice versa	learn the concept in successive upcoming practice sessions			

TEACHING PERIODS : 5 to 7	SOME APPLICATIONS				
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)	GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY ( YOU DO )		
KEY WORDS	Brain storming session invoving children with key words # Dependent Variable # Independent variable	* Students read the keywords answer the questions to the teacher (whole class activity)	Every Pupil will read and write the key words in their note books		
CONCEPTUAL UNDERSTANDING	Teacher gives some more applicative illustrations from real life where we can effectively use line graph to depict data and analyse by making one variable dependent and the other independent. Through this teacher conducts an activity involving children where each group of children will observe the variation of dependent varaible while we change the values of	Each group will understand the concepts by participation in the activity	every child learns the concept through the learning acitivity and observation of TLM		
	independent variable.       Mrs. Potter is a renowned bolarist. She found out that an additioned prime of tertilizer results to a the plant's record.         Mrs. Potter is a renowned bolarist. She found out that an additioned prime plant experiment. Look at 1.25 cm growth of her plant experiment. Look at 1.25 cm growth or her plant experiment. L				
Dependent variable – The cost of the apples depends on the numbr of pounds of apples purchased.	Price of Apples	7 B 9 10 11	ndependent variable – he number of pounds surchased.		
		Describers 10 and 1			
SUMMARY	Teacher once again writes important key words and procedures and asks children to note down and adopt.       Pupils will note down and read the summary and not in groups       Every individual read the summary the summary and not in groups				
ASSESSMENT	ASSESSMENT Teacher gives some questions from Try These Every group will do the sections as well as some examples and asks children to solve those sums children to solve those sums the sums on their children to solve those sums children to solve tho				

