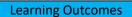
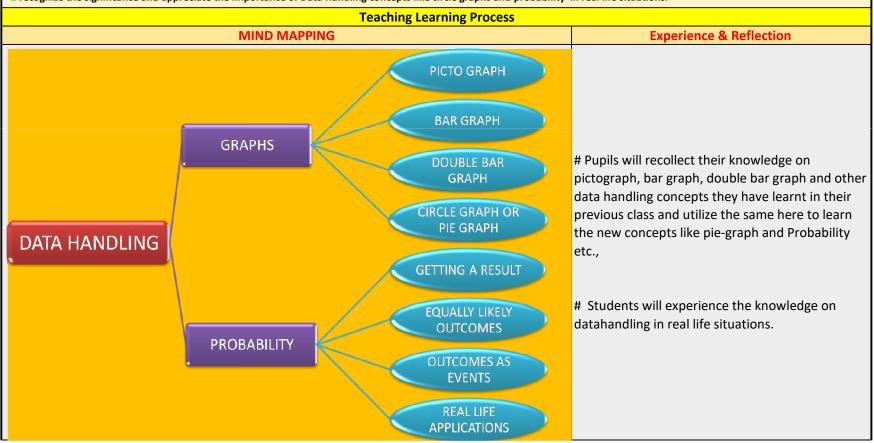
LESSON PLAN 4								
CLASS: 8 TEACHER'S NAME:								
NAME OF THE UNIT	NAME OF THE UNIT SUB-TOPICS NO OF PERIODS REQUIRED							
		Teaching	Practice	TOTAL	From	То		
	4.1 LOOKING FOR INFORMATION	1	1	2				
	4.2 CIRCLE GRAPH OR PIE CHART 4.2.1 DRAWING PIE CHARTS	2	4	6				
DATA HANDLING	4.3 CHANCE AND PROBABILITY 4.3.1 GETTING A RESULT 4.3.2 EQUALLY LIKELY OUTCOMES 4.3.3 LINKING CHANCES TO PROBABILITY 4.3.4 OUTCOMES AS EVENTS 4.3.5 CHANCE & PROBABILITY RELATED TO REAL LIFE	3	5	8				
	TOTAL	6	10	16				
	KEY CONEPTS KEY VOCABULARY							
PRE-REQUISITES	Every Pupil is expected to have basic knowledge in # Data handling concepts like Pictograph, Bar Graph, Double bar graph etc., # circle and its parts # Angle, calculating percentage # perform four fundamental operations like +,-,x,÷	aph, Double bar graph etc., # circle, Pie, Sector, Chart # Angle # Percentage						



After Completion of this lesson every student will be able to

- # represent given data by selecting the best suitable way of representation like pictograph, bar graph,double bar graph or a pie chart
- # compare, analyse and comment on the allocation of different data points in a pie chart
- # calculate the chance or probability of any given event.
- # recognize the significance and appreciate the importance of Data Handling concepts like circle graphs and probability in real life situations.



TEACHING PERIOD: 1	LOOKING FOR INFORMATION						
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)	GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY (YOU DO)				
KEY WORDS & 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 # Pictograph # Bar Graph # Double Bargraph # Data # graphically	* 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 "DATA HANDLING" on the black board and will elict its other related words through questioning and will draw pupils' attention towards key concepts in the lesson	Hetrogeneous groups are created. One group will read the words and other will explain the meaning	Pupils individually read the keywords associated with Integers				
CONCEPTUAL UNDERSTANDING	Teacher recalls the previous knowledge of pupils from classs 7th where they have learnt about different representations like Pictograph, Bar Graph, Double Bar graph. Teacher once again recapitulates those concepts by giving some illustrates and ascertains that every child is thorough with those basics inorder to make them ready to go further into the data handling concept.	Hetrogeneous groups are formed and are given different datas and are instructed to prepare a suitable graph for the data	Each student in the group participates in the activity and recollects their previous knowledge on data handling				
LEARNING ACTIVITY	Name of the fruits Number of fruits Apples Apples Bananas Nicest Fruit	given to them.	Double Bar Graph Court red; each root Girls Boys Fennis Basketball Cricket				
SUMMARY	Teacher writes the summary of the concept detailing about how and in what type of data representation a pictograph or bar graph or double bar graph is used and asks children to note and read and adopt	pupils will note down and read the summary in groups	every individual reads the summary and notes it down				
ASSESSMENT	Teacher asks children to solve the sums of try these section	every group will do the sums by discussion among each other	every individual solves the sums on their own				

PRACTICE PERIOD: 1	LOOKING FOR INFORMATION						
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 # Pictograph # Bar Graph # Double Bargraph # Data # graphically	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 draws relavant graphs for some data and asks children to draw relevant graphs to some more given data by observing similar lines Double Bar Graph Double Bar Graph Reput Marks in Matths: Marks in English	Each group will read the similar lines and will frame some more by discussion	Every Individual prepares their own similar lines using the lines prepared by the teacher				
SUMMARY/ SYNOPSIS	Teacher once again writes important key words and procedure adopted in drawing different graphs and 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 guides children in doing sums of try these section as well as example on their own and checks their writings	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 concept in successive upcoming practice sessions				

TEACHING PERIODS : 2,3	CIRCLE GRAPH OR PIE CHART, DRAWING PIE CHARTS						
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)			GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY (YOU DO)		
KEY WORDS	Brain storming sess # Circle Graph # Pie # Fraction	_	ren with key words # Angle # percentage # Porti	* 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	Teacher introduces different parts of a circle and more preferably the sector and demonstrates the concept of drawing a sector. Later Teacher illustrates the concept of finding percentage of any quanity/amount out of the Total. After intoducing all these basic knowledge which was needed in drawing a pie chart, then teacher demonstrates the procedure of allocating the given data into different sectors of a circle depening upon their percentage of allocation using some illustrative data Now teacher draws a pie chart or circle graph with the help of the table of allocation of sectors prepared earlier and continuous to do so in the forth coming teaching session until he ascertains that every child learns the process of drawing pie chart					Each student in the group participates in the activity and learns the concept	
UNDERSTANDING	Name of the game	No of Players showing interest	Fraction out of central angle 360°	% of allocation	Uno	Number of	
	Monopoly	5250	=(5250*360)/25000 = 76°	21%	Poker 4%	participants per game	
	Candyland	5750	=(5750*360)/25000 = 83°	23%	, , , , , , , , , , , , , , , , , , ,	onopoly per game Monopoly	
	Jonga	2750	=(2750*360)/25000 = 40°	11%	Twister	Candyland	
	Chess	3750	=(3750*360)/25000 = 54°	15\$	19%	■ Jenga	
	Twister	4750	=(4750*360)/25000 = 68°	19%		■ Chess	
	Poker	1750	=(1750*360)/25000 = 25°	7%		Candyland Twister	
	Uno	1000	=(1000*360)/25000 = 14°	4%	Chess 15%	Poker	
	Total	25000	360 ⁰	100%	Jenga 11%	Uno	
SUMMARY	Teacher once again writes important key words and step wise procedure adopted in drawing a pie graph for the given data and asks children to note down and adopt.				Pupils will note down and read the summary in groups	Every individual reads the summary and notes it down and adopts the procedure	
ASSESSMENT	Teacher gives some questions from Try These sections, example sums, exercise sums of 4.1 and asks children to solve those sums				Every group will do the sums by discussion among each other	Every individual solves the sums on their own	

PRACTICE PERIODS: 2 to5	CIRCLE GRAPH OR PIE CHART, DRAWING PIE CHARTS					
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)				GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY (YOU DO)
KEY WORDS READING	children to read and write them in note books # Circle Graph # Pie Chart # Sector # Angle # percentage # Portion				Whole class activity: one child comes to the board and reads the key words loudly and the remaining	Every child comes to the board and reads the key words and notes them down in their note books
	Teacher draws one pie graph for an examplary tabulated data on the black					Every individual solves some more statements by watching the similar lines
SIMILAR LINES READING	English, Mathe Subject Hindi	Marks scored	Fraction out of central angle 360° =(105*360)/540 = 70°	the total marks obtained by the Marks So		
	English Mathematics	82.5	=(82.5*360)/540 = 55° =(135*360)/540 = 90°	Social Science, 97.5, 13%		
	Social Science Science Total	97.5 120 540	=(97.5*360)/540 = 65° =(120*360)/540 = 80° 360°	■ Findi ■ English ■ Mathematics		
SUMMARY/ SYNOPSIS	Teacher once again writes important key words procedure in drawing a pie graph and asks children to note down and adopt. Pupil groups will read and adopt the procedure				Teacher focuses on every individual so that each one learns the concept in	
WRITING/ EDITING	Teacher gives some questions from Try These sections and exerise sums 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					successive upcoming practice sessions

TEACHING PERIOD : 4,5,6	C	CHANCE AND PROBABILITY, GETTING A RESULT, EQUALLY LIKELY OUTCOMES, LINKING CHANCES TO PROBABILITY, OUTCOMES AS EVENTS, CHANCE & PROBABILITY RELATED TO REAL LIFE						
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)				GROUP ACTIVITY (WE DO)		INDIVIDUAL ACTIVITY (YOU DO)	
KEY WORDS	Brain storming session involving children with key words # Probability # chances # outcomes # Equally likely outcomes # Favourable Out comes # Result # Sample Space				* Students read the key words and answer the questions to the teacher		Every Pupil will read and write the key words in their note books	
CONCEPTUAL UNDERSTANDING	real life ques 1)will it rain of 2)If I toss a co 3)If a roll a di roll it for the will be pose concepts like outcome,favo activities inv	Teacher introduces the concept of Probability to the children by asking some real life questions and by eliciting answers. Questions like 1)will it rain or not today? 2)If I toss a coin what could be the chance of getting a head? 3)If a roll a dice and get 6 on the face, will I be of lesser chance to get 6 when i roll it for the second time? will be posed to children with the help of their answers teacher explains the concepts like chance, Outcome, Sample space, equally likely outcome, favourable outcome, random event etc., and later will conduct an activities involving tossing of coins and roling of dice by different groups of children repeatedly for 40 to 70 times each. Each time the outcome is				Hetrogeneous groups are created and are given either coin or dice and are instructed to tabulate the outcome each time after tossing or roling as per the item given and observe and analyse		
	how equally	tally marks in a table. with likely an event is and furth	er will formulate	e the probability.	Dice Value	14.44T 11	allies	Frequency
	Event	ed. The result of 40 trials are show	rn in the following ta	ble.		HH)	НТ	10
	Heads Tails	MY MY MY MY III	18 22		.	HII H	H- III	13
LEARNING ACTIVITY	b. How man	y tosses were done? y times did the heads appear? y times did the tails appear?		probability of getting heads. probability of getting tails.		HII T	H- 11	12
	Probability Formula $P(A) = \frac{\text{Number of favorable outcomes to A}}{\text{Total number of possible outcomes}}$					HH 14	H 1	11
						H11 +	НТ	10
SUMMARY	Teacher writes the summary how to find the probability of a given event on the black board and asks children to read write and note down				the pupils will note down and read the summary in groups		every individual reads the summary and notes it down and adopts the procedure	
ASSESSMENT	Teacher gives some questions from exercise 4.2 and asks children to solve those sums				every group will do the		every individual solves the	

PRACTICE PERIODS: 6 to 10	CHANCE AND PROBABILITY, GETTING A RESULT, EQUALLY LIKELY OUTCOMES, LINKING CHANCES TO PROBABILITY, OUTCOMES AS EVENTS, CHANCE & PROBABILITY RELATED TO REAL LIFE						
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 # Probability # chances # outcomes # Equally likely outcomes # Favourable Out comes # Result # Sample Space	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 finds the probability of a few events using formula and asks children to find the probability of some more by watching the similar lines	Each group will read the similar lines and will frame some more by discussion	Every Individual prepares their own similar lines using the lines prepared by the teacher				
SUMMARY/ SYNOPSIS	Teacher once again writes important key words and procedure of finding probability and asks children to read ,note down and adopt.	Pupil groups will read the summary and procedure and utilize	Teacher focuses on every individual so that each one				
WRITING/ EDITING	Teacher asks children to solve the sums of exercise 4.2 on their own and teacher checks the writings of children	One group will check the writings of the other and vice versa	learns the concept in successive upcoming practice sessions				