

Pre-Content / Post-Content	Learning outcomes/Objectives	
	General	Specific
<u>Pre-Content</u> - Bar graphs - Pictographs	Students will be able to recall Bar graphs ,Pictographs	Students will be able to ✓ relate bar graphs and pictographs ✓ recall their interpretation
<u>Content</u> - Grouped frequency table - Histogram - Pie chart - Probability	Learn to represent a grouped frequency table construct a histogram draw a pie chart calculating the probability of events in real life	✓ group a raw data into a grouped frequency table ✓ representing the grouped data through bar graphs ✓ construct histogram for the given grouped data ✓ calculate the central angle and draw the pie chart ✓ generalize and relating the events in real life and finding their probability
<u>Post-content</u> Problem solving of higher level	solve problem on HOTS	✓ Acquire problem solving skills by performing calculations to solve various problems

Home Work /Assignments

- 1.NCERT Exercise /solved examples given as home task
- 2.Extra questions from the help book

Teacher's Activity	Student's Activity	Teacher's observation and Remedial
Teacher will recall and relate bar graphs and pictographs give an example of a grouped frequency table explain students how to draw the histogram explain students how to draw the pie chart make them understand how to find the probability and instruct to perform an activity on equally likely events ANNEXURE I pose different problems of higher order thinking ability .	Students will recall the same understand the examples given by a teacher understand the instructions given by teachers understand the instructions given by teachers find the probability and perform the activity as per teachers instructions and write the observations ANNEXURE I try to solve those problems.	Teacher will write her/his observations after completion of the topic

Teaching Aids: Smart boards, ICR

Methodology/Innovative Methods: Discussion, Deduction, Question-Answer method, Activity , problem solving.

Interdisciplinary Links: Real life problems, physics,biology,environmental sciences

Coordinator

H.O.D

Vice-Principal

Principal

ANNEXURE I

Subject	MATHEMATICS
Class	VIII
Chapter/Unit	<u>DATA HANDLING</u>
Topic	EQUALLY LIKELY OUTCOMES
Time	30 MINUTES
Nature of Activity	PAIRS

What will I learn (Learning Outcome)?

The concept of equally likely outcomes.

Skills: Visualizing, Creating ,Accuracy, logical ability

What I have to do?

To show that tossing of a coin is an equally likely event.

What do I require?

A chart paper,pencil box,a coin.

What do I need to know?

Frequency distribution table.

➤ **Teacher's Activity**

Teacher will show a coin and discuss the frequency distribution table. The teacher will divide the class into pairs.

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

The students will work in pairs.One student will toss the coin and the partner will record the outcome using tally marks ,as shown below

number of tosses	tally marks (H)	number of heads	tally marks (T)	number of tails
50	IIII IIII IIII IIII II	27	IIII IIII IIII IIII III	23
60	IIII IIII IIII IIII IIII	28	IIII IIII IIII IIII IIII	32
70		33		37
80		38		42
90		44		46

What have I observed?

As the number of tosses increase, what happens to the number of heads and tails?

What have I learnt?

All the outcomes have an equal chance of _____ in an equally likely event.

What am I curious to learn?

Rolling a dice a number of times and interpreting the outcomes.

Let me evaluate myself

1.If we roll a dice once what are the outcomes?

2. In a school only, 3 out of 5 students can participate in a competition. What is the probability of the students who do not make it to the competition?

3. What is the probability of choosing a vowel from the English alphabets?

4. Ram put some buttons on the table. There were 4 blue, 7 red, 3 black and 6 white buttons in all. All of a sudden, a cat jumped on the table and knocked out one button on the floor. What is the probability that the button on the floor is blue?

5. A coin is tossed 200 times and head appeared 120 times. What is the probability of getting a head in this experiment ?
