Mathematics

Unit 3: Data Analysis, Statistics, and Probability

	Graphs convey data in a concise way
Farantial	Crapile derively data in a derivide way.
Essential	Information from a graph can be used to answer questions.
Understandings	The probability of an event's occurrence can be predicted with
	varying degrees of confidence.
	Why does one use graphs?
	What is probability?
	How can one use data to make predictions?
Essential	What is the median?
Questions	How does one find the median?
	What is range?
	How does one find the range?
	Data is collected and organized to solve problems and answer
	questions.
	 Graphs are used to represent and interpret data.
Essential	Probability is a measure of how likely an event is to occur.
Knowledge	The median is the number in the middle when data is organized
3	from least to greatest.
	 The range is the difference between the least and greatest values
	in a set of data.
	Terms:
Vocabulary	o median, mode, range, Venn Diagram, pictographs, circle
Vocabalary	graphs, theoretical probability, central tendency
	 Read, construct, and interpret tables and line plots. (I, R, A)
	 Read and interpret pictographs, circle graphs, and Venn diagrams.
Facential	(I, R, A)
Essential	Describe events as likely, unlikely, certain, or impossible. (R, A)
Skills	 Determine the probability of an event using theoretical probability.
	(I, R, A)
	 Determine possible outcomes and express as a fraction. (I, R)
	 Define, find, and use the median, mode, and range when analyzing
	data. (I, R, A)
	B. Data
	Data Analysis
Related	B2.Students collect and represent data in tables, line plots, and
Maine Learning	Interpret these types of data displays.
Results	D. Algebra
	D3.Students use tables, rules, diagrams, and patterns to represent
	the relationship between quantities and to extend patterns.

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	NECAP
	Data, Statistics, and Probability
	M(DSP) 4 – 1
NECAP	Interprets a given representation (line plots, tables, bar graphs, pictographs, or circle graphs) to answer questions related to data, to analyze the data, to formulate or justify conclusions, to make predictions, or to solve problems. M (DSP) 4 – 2
	Analyzes patterns, trends, or distributions in data in a variety of contexts by determining of using measures of central tendency (median or mode), or range. M (DSP) 4 – 5
	For a probability event in which the sample space may or may not contain equally likely outcomes, determines the theoretical probability of an event and expresses the result as part to whole (e.g., two out of five).