

5 th Grade			
Data Statistics and Probability			
GLE	Key Content & Skills	Common Benchmark Assessments	
<p>M:DSP:5:1 Interprets a given representation (tables, bar graphs, circle graphs, or <u>line graphs</u>) to answer questions related to the data, to analyze the data to formulate or justify conclusions, to make predictions, or to solve problems.</p> <p><i>(IMPORTANT: Analyzes data consistent with concepts and skills in M:DSP:5:2.)</i></p>	<p>Types of data representations:</p> <ul style="list-style-type: none"> -Tables -Bar graphs -Circle graphs -Line graphs -<i>Pictographs</i> -<i>Tally charts</i> -<i>Line plots</i> <p>Analyze data to form conclusions:</p> <ul style="list-style-type: none"> -Answer questions related to data -Make predictions -Form and justify conclusions -Solve problems <p>Activities:</p> <p>Students generate data based on surveys</p>	<p>enVision 18-1 18-2 18-3 18-6</p> <p>Do NOT teach 18-4!</p>	<p>GLE Support Items #160 #161</p>
<p>M:DSP:5:2 Analyzes patterns, trends, or distributions in data in a variety of contexts by determining or using measures of central tendency (<u>mean</u>, median, or mode) or range to <u>analyze situations</u>, or to <u>solve problems</u>.</p>	<p>Analysis tools:</p> <p>Measures of central tendency (mean, median or mode)</p> <ul style="list-style-type: none"> -Range <p>Purpose of analysis:</p> <ul style="list-style-type: none"> -Problem Solving 	<p>enVision 18-7 18-8</p>	<p>GLE Support Items #162 #163 #164</p>
<p>M:DSP:5:3 Organizes and displays data using tables, bar graphs, or <u>line graphs</u> to answer questions related to the data, to analyze the data to formulate or justify conclusions, to make predictions, or to solve problems.</p>	<p>Tools:</p> <ul style="list-style-type: none"> -Tables - Bar graphs - Line graphs -<i>Tally charts</i> -<i>Line plots</i> <i>Pictographs</i> <p>Data analysis:</p> <ul style="list-style-type: none"> - Answer questions - Formulate or justify conclusions - Make predictions - Solve problems <p>Data tool selection:</p> <ul style="list-style-type: none"> - Identifies or describes representations or elements of representations that best display a given set of data or situation 	<p>enVision 18-9 Going Digital Pg. 439</p>	<p>GLE Support Items #165</p>
<p>M:DSP:5:3 Identifies or describes representations or elements of representations that best display a given set of data or situation, consistent with the representations required in</p> <p><i>M:DSP:5:1. (IMPORTANT: Analyzes data consistent with concepts and skills in M:DSP:5:2.)</i></p>			

Highlighted Boxes are Power Standards

Bolded Boxes are Standards tested on NECAP

Italics indicate Teaching Component from prior grade; should continue to be reinforced.

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M:DSP:5:4 No standard at this grade	Combinations: <i>-Combinations of coins to make sums of money</i> Permutations: <i>-e.g Given a map, determine number of possible paths from A to B</i> Strategies: <i>Student diagrams, organized lists, tables, tree diagrams</i>		
M:DSP:5:5 For a probability event in which the sample space may or may not contain equally likely outcomes, predicts the likelihood of an event as a fraction and tests the prediction through experiments; and determines if a game is fair.	Predicting the likelihood of an event: - Predicts as a fraction -Tests the predictions through experiments -Determines if a game is fair <i>-More likely, less likely, or equally likely, certain or impossible)</i> <i>-Predicts as part to whole (e.g. two out of five, zero out of five)</i> -	enVision 20-1 20-2 20-3	GLE Support Items #166
M:DSP:5.5 For a probability event in which the sample space may or may not contain equally likely outcomes, determines the experimental or theoretical probability of an event and expresses the result as a fraction.	Theoretical probability: -Expresses result as a fraction <i>-Expresses as part to whole</i> <i>-More likely, less likely, or equally likely</i>		

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