## **Grade 2 Mathematics – Unit 9: Interpreting Data**

## **Phoenixville Area School District**

	Stage 1 Desired Resu	lts	
PA Core Standards:	Tran	nsfer	
CC.2.4.2.A.4 Represent and interpret data using line plots, picture graphs, and bar graphs	<ul> <li>TRANSFER GOALS Students will be able to independently use their learning to <ul> <li>Problem-Solving: Persistently apply various problem-solving strategies and organized approaches to accurately understand and solve problems.</li> <li>Fluency: Demonstrate automatic recall of addition, subtraction, multiplication and division facts.</li> <li>Mathematical Vocabulary: Interpret mathematical vocabulary and apply proper terminology to engage in meaningful oral and written expression that communicates mathematical thinking, problem-solving methods, and rationale. </li> </ul></li></ul>		
	Меа	ning	
	<ul> <li>UNDERSTANDINGS Students will understand that</li> <li>Organizing/interpreting data helps us make inferences and draw conclusions.</li> <li>Mathematics is used to make informed decisions about problems in everyday life.</li> </ul>	<ul> <li>ESSENTIAL QUESTIONS</li> <li>Students will keep considering</li> <li>How do we use data to make decisions?</li> <li>How is mathematics used to quantify and compare situations, events and phenomena?</li> </ul>	
	Knowledge and S	Skills Acquisition	
	<ul> <li>KNOWLEDGE</li> <li>Students will know</li> <li>Read, analyze, and interpret picture graphs</li> <li>Create picture graphs from a set of data</li> <li>Tally charts as a form of data collection</li> <li>VOCABULARY</li> <li>Picture Graph</li> <li>Tally Chart</li> <li>Key</li> <li>Symbol</li> </ul>	<ul> <li>SKILLS</li> <li>Students will be skilled at</li> <li>Reading and understanding a key to determine what each symbol on a picture graph represents.</li> <li>Analyzing picture graphs to answer questions about a set of data orally and in writing.</li> <li>Creating a written tally chart to organize a data set.</li> <li>Creating a written picture graph to organize a data set.</li> </ul>	

		Stage 2 – Evidence	
Code A/M/T	Evaluative Criteria	Assessment Evidence	
Т	Valid conclusions are made based on given/ implied/ found information. All necessary work is shown with no missing information/ skipped steps. All representations are clear and labeled accurately.	<ul> <li>PERFORMANCE TASK(S) Students will demonstrate understanding (meaning-making and transfer) through complex performance by</li> <li>Planning a Birthday Party This task challenges students to collect a set of data, create a tally chart, and create a picture graph to organize a set of data. Students will also be answering questions about the set of data they collect. <ul> <li>Goal: Your task is to decide on the amounts of snacks needed for a birthday party.</li> <li>Role/Audience: You are a party planner, and your audience is a group of 2<sup>nd</sup> graders at a birthday party.</li> <li>Situation/Product: You will create three different types of graphs to represent collected data. <ol> <li>First, you will first create a tally chart to record the data collected.</li> <li>Next, you will create a picture graph. You will create a picture graph to represent your data.</li> <li>After that, you will create a bar graph showing the data you collected. Your bars can represent the data either vertically or horizontally.</li> <li>Then, you will create a line plot to represent the data you collected.</li> </ol> </li> <li>Analysis: After creating the picture graph, bar graphs. Questions focus on analyzing the data (e.g. What snack will 1 need the most of? What snack will 1 need the least of? How many bags of [insert name of snack] will 1 need to muber of each snack needed.</li> <li>Success Criteria: Your picture graph and bar graph must include a title, key, and symbols to represent the data. Your tally chart must include a bar chark needed.</li> </ul></li></ul>	Differentiation Considerations: [Work on this section after completing Stages 1-2 of all units]
А	All necessary work is shown with no missing	OTHER EVIDENCE	Differentiation Considerations:

Valid conclusions are made based on given/ implied/ found information.
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