Glynn Middle School

Daily & Weekly Agenda - Lesson Plan

	Monday	Tuesday	Wednesday	Thursday	Friday
Teacher	Ms. Divinity	Ms. Divinity	Ms. Divinity	Ms. Divinity	Ms. Divinity
Date	August 21, 2023	August 22, 2023	August 23, 2023	August 24, 2023	August 25, 2023
Learning Target	**Students will:** Learn to explore statistical and non statistical questions.	**Students will:** - Create data displays to represent numerical data on a number line, including dot plots, histograms, and box plots. - Recognize statistical questions and explain that they can be answered by collecting data values that can vary.	**Students will:** - Draw conclusions about a numerical data distribution based on measures of center and variability. - Calculate quantitative measures of center and variability and describe an overall pattern or deviations from the pattern. - Summarize numerical data.	**Students will:** - Draw conclusions about a numerical data distribution based on measures of center and variability. - Calculate quantitative measures of center and variability and describe an overall pattern or deviations from the pattern. - Summarize numerical data.	**Students will:** To understand that Mean Absolute Deviation (MAD) is used to measure variance.
Success Criteria	**I'll know I have it when I can…** ☐ Sort my questions into statistical and non-statistical questions	**I'll know I have it when I can…** - Compare a dot plot and a histogram made by using the same data set. - Write a statistical question and create a data display. - Develop contexts for different data displays. - Evaluate data displays. - Display data by using a dot plot or a histogram and describe the data	**I'll know I have it when I can…** - Use the mean to describe the center. - Find the balance point of two numbers and notice that it is the mean of those numbers. - Determine the mean of a given data distribution to answer a statistical question. - Create data distributions with a given	**I'll know I have it when I can…** - Use the mean to describe the center. Find the balance point of two numbers and notice that it is the mean of those numbers. - Determine the mean of a given data distribution to answer a statistical question. Create data distributions with a given balance	**I'll know I have it when I can…** - I can determine the distance of each data point in a distribution from the mean. - I can calculate the sum of the distances from mean in a data distribution. - I can explore the relationship of mean absolute deviation and variability.

		distribution.	balance point	point	
Activity or Assignment with Text/Links	**Lesson 1:** Statistical Questions **Warm-Up:** Create a Dot Plot **Activator:** Statistical Questions Video Intro https://youtu.be/xj95mYTl9MY **Mini-Lesson:** What is a Statistical Question? PPT *(teacher)* Creating Dot Plot Example *(4th Block)* _Creating Histogram - From Frequency Table Example_ Creating *Students* take notes in *Interactive Notebook* **Lesson Activity**(Stations): _(12 minutes) - Stations_ 1) Statistical Questions Card Sort 2) Digital Activities (Create Dot Plot & Create/ Analyze Histogram) 3) IXL Small Groups *(Teacher-Led) -*	**Lesson 6:** Selecting a Data Display **Warm-up:** Identify Types of Data *(5 minutes)* **Activator:** Histogram Review Video https://youtu.be/5xGW3ydBIz4 (5 minutes) **Mini-Lesson:** Comparing Data Displays (8 minutes) - Students will Turn & Talk (1 minute) **Activity:** Students will be placed into groups by the teacher *(5 minutes)* 1) Students will select a statistical question *(5 minutes)* 2) Students will; select a data display & use classroom resources to create a poster *(40 minutes)* _**Students can start after informing the teacher of their statistical question.**_	**Lesson 8:** Mean as the Balance Point **Warm-up:** Create a Histogram *(5 minutes)* **Activator:** Mean, Median, Mode & Range Video https://youtu.be/IHginNwss5c *(5 minutes)* **Mini-Lesson & Activity:** Lesson 8 - Digital Lesson *This will be assigned to students) - (20 minutes)* **Independent Practice:** Students will work through practice in a packet that covers _creating a dot plot, frequency table, histogram, relative frequency table, analyzing data displays & finding mean & range (30 - 35 minutes)_ **Quiz:** _IXL -_ Concepts from Lesson 1 - Lesson 8 *(20 minutes)* **Closing Review Video & Questions:** https://youtu.be/5C9LBF	**Lesson 9:** Variability in a Data Distribution **Warm-up:** Find the Mean, Median, & Mode *(5 minutes)* **Activator:** Eddie Is Moving video *(Context Video) - Compare Two Data Sets with the same mean (Eureka Launch Activity) - (2 minutes)* **Mini-Lesson:** Introduce vocabulary term "variability", Class discussion and notes on variability *(25 minutes)* _**Small Groups (Start with 35 minutes**_ _1)_ Finding the Mean - *Teacher-Led Small Group based on test data - IXL -* Then Dot Plot & Mean, median, mode, range maze *(Intervention Group)* _2)_ Finding the mean, median, mode, range - Flocabulary Activity then - Dot plot/ Mean, Median, Mode, Range Maze- IXL Practice - *(Intermediate Group)*	**Lesson 10:** The Mean Absolute Deviation **Warm-up:** Find the Absolute Value Maze - Digital *(Self-Check) (5 minutes)* **Activator:** MAD Mean Absolute Deviation Song https://youtu.be/UBh48VErmZg *(5 minutes)* **Mini-Lesson:** Teacher will present Mean Absolute Deviation presentation *Students will* take notes in _MAD Foldable Notes_ *(30 minutes)* **Guided Practice:** *Teacher will explain concept using Graphic Organizer & Variability in Basketball Activity (20 minutes)* **Independent Practice:** Students will finish Basketball MAD Worksheet *(25 minutes)* **Additional Practice:** *Students will complete IXL assignments*

	Converting Fractions to Decimals 4) Notebook Self-Check (Students complete interactive math problems in notebook) *(4th Block) - Separate station2 -remove station4* **Exit Ticket:** Google Forms - Analyzing Histogram	**Exit Ticket:** Analyzing/ Comparing Data Displays & Deciding between Statistical & Non-Statistical Questions *(5 minutes) - Page 89* Clean-up from activity *(5 minutes)*	3b65s 1) How do we calculate the mean? 2) What are the three measures of center? ***Differentiation:*** Maze or Engaging Activity for early finishers	*3)* Finding the Mean Paper Chain Activity - *(Enrichment Group) - Then* Dot Plot & Mean, Median, Mode, Range Maze **Independent Practice:** Practice problems, lesson 9, *page 139 - 143 (15 minutes) - Students will finish assignment for homework* **Exit Ticket:** Lesson 9, Page 139 *(5 minutes)*	"Calculate mean absolute deviation" & "Interpret mean and mean absolute deviation" **Exit Ticket:** Lesson 10, page 151 *(5 minutes)*