



UNIT GRAPHIC ORGANIZER

Comentado [FA1]: Excelente trabajo

SUBJECT: Mathematics

UNIT: 4

COURSE: 5th Grade

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DATE: september 6th/2021

Volume of Solids, Integers and Statistics

THROUGHLINES:

1. How can you use integers to solve real-world problems?
2. How do you identify and compare positive and negative numbers?
3. How can you interpret and analyze quantitative data from statistical graphs?
4. How can you display data in a histogram and box plots?
5. How can you get the surface area and volume of several kinds of solids?

GENERATIVE TOPIC:

Math shark tank

UNDERSTANDING GOALS:

The student will comprehend how to solve real world problems through the concept of integers, using number lines and manipulatives, in order to develop analysis in different contexts.	The student will understand how to organize integers and compare them through graphs, proposing different strategies by applying this concept in solving problem process.	The student will understand how to solve quotidian situations by using the mean, median, and mode of a set of data by analysing, and summarizing information in order by model real life problems.	The student will reason how to interpret numeric data by using histograms, and box plots applying communication strategies in order to represent stactical information.	The student will comprehend how apply the concept of volume and surface area of composite solids by using nets and the appropriate formulas with concrete material by solve design challenges.
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	UNDERSTANDING PERFORMANCES	TIME	ASSESSMENT	
	ACTIONS		WAYS	CRITERIA
Exploration Stage	<ul style="list-style-type: none"> • To write, interpret, and explain statements of order for rational numbers in real - world contexts • To provide situations which students can represent real-world quantities such as temperatures, elevations, and gains and losses of money with positive and negative integers. • To collect data from a quantitative variable. • To represent numeric data graphically including histograms and some kinds of bar diagrams. • To experiment with 3D shapes through online activities. 	1 Week	<ul style="list-style-type: none"> • Discussing about how describe the value of many things in the real world using negative numbers. • Drawing a number line to compare and order integers and getting their absolute value. • Surveying through a virtual tool to show randomized experiments. • Using virtual solids to identify their attributes. • Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes 	<p>Taking part frequently in classes activities</p> <p>Using math and geometrical structures by describing real situations</p>
Guided Stage	<ul style="list-style-type: none"> • To Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line. • To discuss about how integers can be represented in real situations like climate, temperature, and elevations • To use measures of centre to describe a data set. • To determine and use the mean absolute deviation of a set of data points. • To use graphs by model and solve surface area and volume problems 	6 Weeks	<ul style="list-style-type: none"> • Using positive and negative numbers together by describe quantities having opposite directions or values. • Describing the height of a mountain in feet or the temperature in degrees Celsius at the top of that mountain using negative integer • Working by identify the volume of prisms, pyramids and spheres by using the appropriate formula. • Summarizing numerical data sets in relation to their context, such as by giving quantitative measures of centre and variability • Using a box plot or histogram and measures of spread to describe a data set 	<p>Proposing and solving problems with specific process.</p> <p>Arguing the resolution of Math problems.</p> <p>Using specific topics by represent and solve problems.</p>

<p>Learning Evidence</p>	<p style="text-align: center;">SYNTHESIS PROJECT</p> <p>The students will model a store about their favorite elements getting and organizing information in statistical graphics, quantitative measures of center and variability in order to simulate selling their products successfully and show them in a final presentation.</p>	<p style="text-align: center;">1 Week</p>	<ul style="list-style-type: none"> • Chosing the kind of elements by create the store with base in some options (ice cream, videogames, pets, food and sports) • Applying surveys by define the favorite options of your partners and in this way, to collect the needed information by design the store. • Applying the statistical processes needed by define the best products by sell in their store. • Organizing the information using statistical graphs by design the final sustentation with their partners. 	<p>Applying oral and writing tools with base in the comprehension of math topics</p> <p>Solving synthesis project activities taking propositional attitude.</p>
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