



UNIT GRAPHIC ORGANIZER

SUBJECT: Mathematics

UNIT: 4

COURSE : Third

TEACHER: Julieth Orrego

DATE: Septemberth12, 2022

Division with two-digit quotients, Addition and subtraction with Decimals, Units of temperature, Elapsed
TITLE: Time, Cartesian Plane

THROUGHLINES:

1. How can I solve division exercises using multiplication facts?
2. How can I recognize the relation between fractions and decimals?
3. How can I write different temperature measures?
4. How can I solve word problems taking into account elapsed time?
5. How can I display useful data in the Cartesian plane?

GENERATIVE TOPIC



UNDERSTANDING GOALS:

The student will comprehend the process to divide finding two-digit quotients by using place value and properties in a real context, in order to solve word problems and communicate them in a daily routine.	The student will understand decimals and when using addition or subtraction of them, taking into account the information of a problem to get a solution, in order to understand how to estimate quotients in his real context.	The student will understand how to read the temperature using the thermometer and express it in a proper way; keeping in mind the different scales, they will be capable to use and analyze the different temperature around them.	The student will comprehend how to determine elapsed time by reading the clock in order to determine the time before or after an interval of hours, in order to use in a daily context every day.	The student will understand the Cartesian Plane by locating data and coordinates on it accurately, labeling its parts, solving problems and using the Cartesian plane in real situations to find solution to some problem situations.
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	UNDERSTANDING PERFORMANCES	TIME	ASSESSMENT	
	ACTIONS		WAYS	CRITERIA
Exploration Stage	<ul style="list-style-type: none"> • To arrange different things according to a specific instruction to relate with division. • To introduce the topic about decimals and fractions. • To represent a number as a decimal on the number line. • To establish comparisons about the temperature of different environments. • To introduce the topic about elapsed time. • To talk about routines identifying elapsed time. 	weeks 2	<ul style="list-style-type: none"> -Practicing with counters to create groups. -Using virtual manipulatives. -Watching a video about decimals characteristics. -Using number line cards to practice decimals. -Watching different landscapes to understand temperatures. -Watching a video about time units. -Using key words to describe routines. -Asking questions and classifying answers. -Using paper to divide quadrants of the plane. -Watching a video to get more information about Cartesian plane. -Synthesis Project: socializing the name of the project, as well as its topic and steps. 	<ul style="list-style-type: none"> - To understand and follow instructions using basic math concepts. - To relate quantities and numerical symbols through process such as classification, deduction and counting.

	<ul style="list-style-type: none"> To explain the coordinates in a cartesian plane. 		Making the cover with the most important information.	
Guided Stage	<ul style="list-style-type: none"> To add and subtract decimals To show weather changes and comparing temperature in a real context To compare routines and solve time problems. To organize data and locate them on the plane. 	4 weeks	<ul style="list-style-type: none"> -To divide using algorithms and strategies. Working on the book and guide. -Using virtual manipulatives. -Solving decimals problems. -Using red color paper and cardboard to create a thermometer to compare Fahrenheit and Celsius scales. -Using paper to create a time units' classification chart. - Using a virtual game to locate the coordinates on the plane. -Synthesis Project: locating on Cartesian plane different places identified with coordinates and different temperature. 	<ul style="list-style-type: none"> To interiorize cognitive skills those allow him/her to develop the logic math though. To participate actively during the classes.
Learning Evidence	-To develop the project "The Secret treasure", in order to improve abilities about Cartesian Plane use, as well as the way of solving decimals and temperature problems, by using materials in a creative way.	weeks 2	<ul style="list-style-type: none"> • They draw those places and write their temperatures in the opposite one given (F or C) • They solve decimals additions and subtractions to find the secret treasure. Finally, they present it to the class. 	- To demonstrate comprehension of the topics learnt through the correct presentation of them.