



UNIT GRAPHIC ORGANIZER

SUBJECT: Science

UNIT: 2

COURSE: Fifth

TEACHER: Diana Totena – Flor Alba Novoa

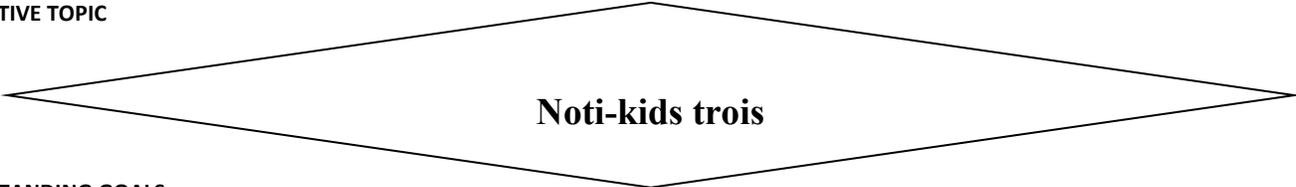
DATE: April 15th -2024

Elements and properties of matter

THROUGHLINES:

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| <ol style="list-style-type: none"> 1. How do scientists name the elements of the periodic table? 2. Do you know what is a solvent or a solute? 3. Are there mixtures in my body? |
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GENERATIVE TOPIC



UNDERSTANDING GOALS:

<p>The student will identify characteristics of atoms, molecules, elements and compounds, making simple models to recognize characteristics of atomic structure and explain how atoms join to produce physical and chemical changes.</p>	<p>The student will recognize different properties of matter through experiments, registering observations, findings and conclusions in a laboratory report that subsequently she / he will discuss with other classmates.</p>	<p>The student will comprehend different types of mixtures through laboratory practices, allowing him / her to create, observe, analyze and conclude about different matter states and variables that can affect its own composition.</p>
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	UNDERSTANDING PERFORMANCES	TIME	ASSESSMENT	
	ACTIONS		WAYS	CRITERIA
Exploration Stage	<ul style="list-style-type: none"> •To recognize different elements of the Periodic Table, and its organization. •To identify characteristics of the elements like atomic number, mass number, symbol, electron configuration. •To differentiate the properties of matter. 	Weeks: 3	<ul style="list-style-type: none"> • Describing the characteristics of the matter using different images. • Modeling some atoms of elements and compounds using candies. • Analyzing the organization of the periodic table through the critical reading format. • Describing the elements of the periodic table using pictograms. • identifying series in periods and groups of the periodic table. <p>SYNTHESIS PROJECT Noti-kids-trois Selecting and organizing the groups of students in each classroom. In the first step writing the following problem: How can we be an environmentally friendly citizen around the world? (Stem process. ASK), next, what are some ways to solve the problem? (IMAGINE), then What are we going to do to solve the problem (PLAN) working a news program taking into account the different kind of roles for students (journalist, host, guest, writers and others.</p>	<p>Explain how a limited number of elements make possible the diversity of known matter.</p>

<p>Guided Stage</p>	<ul style="list-style-type: none"> •To describe the relation between some properties of matter. 	<p>Weeks: 3</p>	<ul style="list-style-type: none"> • Visiting the laboratory to observe different instruments to measure properties of matter. • Making a laboratory practices about properties of matter, registering their findings in a lab report. • Making activities in the guide to learn how to read several graphs. • Creating hypothesis about possible methods to separate different mixtures. • Analysing the PH as a property of matter using different substances observing the color changes and writing the findings in the laboratory report. <p>SYNTHESIS PROJECT Noti-kids-Trois Making an inphographic to explain: what is Global warming (causes, consequences and how children can help to solve this environmental problem-science) CREATING the script for the news program according to the components and the roles taking into account different subjects like math, geography, science, history, Spanish, english, dance, art, etc.</p>	<p>Verify effects of different properties of matter, and recognize different types of mixtures.</p>
<p>Learning Evidence</p>	<ul style="list-style-type: none"> • To recognize variables that can affect state of matter and its composition • To classify types of mixtures and characteristics. 	<p>Weeks: 2</p>	<p>Analysing Solubility: students will compare solubility of brown sugar Using hot, warm and cold water. They will determine temperature as a variable that affects the solubility of a solute making graph.</p> <p>SYNTHESIS PROJECT Noti-kids-Trois Test the script in a news program checking What is necessary to improve? The students will develop a performance about the global warming features (causes, consequences, advices and steps for controlling it), bearing in mind the big question, Also, they will wear customs, accessories and help their presentation with visual aids and backgrounds. And finally reflexing about how this synthesis project help them to be friendly citizens around the world.</p>	<p>Design and use experiments to identify mixtures and variables that affect the composition of matter.</p>