

Summative Project Choices Matter Unit

Story/Scrap Book:

Complete a story book about Matter. Include an explanation of Matter. Provide information and examples of the states of matter and their physical and chemical properties. Additionally you should address the ways matter can change chemically as well as physically.

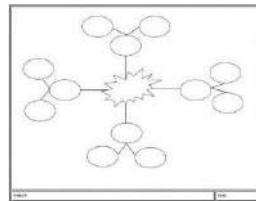
Finally address the elements, atoms, and molecules that make up matter. Create a diagram page about the atom and its subatomic particles and explain about the atom and its components. Then follow up pages with definitions, examples, and illustrations of molecules, compounds, pure substances, mixtures, and the periodic table and how these subdivisions of matter relate to each other and matter. Your book may be strictly informative or a creative representation that will inform and entertain readers. Be sure that your book is correct, colorful, and clear.

AT LEAST 15 Pages.



Graphic Organizer Content Map:

Create a graphic organizer that explains matter from its most general to most specific terms. From the central idea of matter break down what matter is and how it can be explained. Provide information and examples, give definitions, examples, and pictures that explain: the physical and chemical properties of matter, the chemical and physical changes that matter can undergo, the elements, atoms, elements (explain the element square), atoms (explain sub atomic particles), molecules and compounds that make up matter, pure substances, mixtures, as well as the periodic table and its arrangement. Be sure that your organizer is informative as well as easy to read and follow. Double check that all of your information is correct, colorful, and clearly organized. * AT LEAST five example connections.



3D Display:

Create a 3D diorama or display that represents matter from its most general forms to most specific forms. From the central idea of matter break down what matter is and how it can be explained. Provide information and examples with each 3D description, give definitions and examples that explain: the physical and chemical properties of matter, the chemical and physical changes that matter can undergo, the elements, atoms, elements (explain the element square), atoms (explain sub atomic particles), molecules and compounds that make up matter, pure substances, mixtures, as well as the periodic table and its arrangement. Be sure that your display is informative as well as easy to read and follow. Double check that all of your information is correct, colorful, and clearly organized.

Hint matter is most easily represented 3-dimensionally with colorful cereal or candy
The Mason jar display is a really fun way to breakdown PURE SUBSTANCES (compounds and elements) and MIXTURES (homogeneous and heterogeneous)

Prezi or Power Point:

Create an informative power point about Matter. Include an explanation/definition of Matter. Provide information and examples of the states of matter and their physical and chemical properties. Additionally you should address the ways matter can change chemically as well as physically.

Finally address the elements, atoms, and molecules that make up matter. Create a diagram page about the atom and its subatomic particles and explain about the atom and its components. Then follow up pages with definitions, examples, and illustrations of molecules, compounds, pure substances, mixtures, and the periodic table and how these subdivisions of matter relate to each other and matter. Your book may be strictly informative or a creative representation that will inform and entertain readers. Be sure that your book is correct, colorful, and clean.

AT LEAST 15 Slides.



UNIT 1 Project Rubric

Standard checklist:

I have investigated the scientific view of the nature of matter through:

- ☐ a. Categorizing matter as either elements, atoms, molecules, and compound molecules; as well as explaining how matter is created through foundational building blocks beginning with atoms. Including being able to explain and break down atoms and their subatomic particles.
- ☐ b. Describe the difference between pure substances (elements and compounds) and mixtures.
- ☐ c. Movement of particles in different states of matter; solids, liquids, gas, and plasma.
- ☐ d. Distinguish between physical and chemical properties.
- ☐ e. Distinguish between physical and chemical changes.
- ☐ f. Explain the organization of the periodic table and its importance and uses in science.
- ☐ g. Explain the concept of the law of conservation of matter.

Developing Knowledge	Proficient Knowledge	Mastery of Knowledge	Objective
<ul style="list-style-type: none"> Made beginning (simple) connection made within the project Intermittent application of the standard within the project. Less than 3 standards checked. 	<ul style="list-style-type: none"> Several connections made within the project Solid application of the standard within the project. Less than 5 standards checked. 	<ul style="list-style-type: none"> Advanced connections within and across subjects made within the project Sophisticated application of the standard within the project All 7 standards have been investigated and addressed clearly in the project. 	<p>Understanding of Standard(s) ____/ 50</p>
<ul style="list-style-type: none"> Connections were vague or missing Idea was not developed throughout the activity Un-organized and difficult to follow 	<ul style="list-style-type: none"> Connections were clear Idea was fully imaginative but was not fully expressed Mostly organized but there are areas for improvement 	<ul style="list-style-type: none"> Connections were clear and concise Idea was fully developed throughout the activity Well organized and accessible to all 	<p>Clarity of Project ____/25</p>
<ul style="list-style-type: none"> Medium was not successfully used to explain message Project was not fully developed Unoriginal 	<ul style="list-style-type: none"> Medium is well used to support the message Mostly engaging Well rounded but lacks unique qualities 	<ul style="list-style-type: none"> Masterfully integrates message and medium Engaging and attention grabbing Sparks new ideas about the highlighted standard 	<p>Creativity ____/25</p>