

## Unit Outlines: Questions, Understandings, Task Ideas

TOPIC	UNDERSTANDING: STUDENTS WILL UNDERSTAND <i>THAT</i>	ESSENTIAL QUESTIONS	PERFORMANCE TASKS
Africa	<ul style="list-style-type: none"> <li>• Geography and climate of a region influence the culture, economy, and lifestyles of its inhabitants.</li> <li>• The affect of European Colonization in the 1800's helped determine Africa's third World State today.</li> <li>• Apartheid divided South Africa.</li> </ul>	<ul style="list-style-type: none"> <li>• What is the relationship between geography and climate and the life expectancy of a group of people?</li> <li>• What are reasons for colonization?</li> <li>• If you were a white in South Africa would you have wanted Apartheid abolished?</li> </ul>	<p>You are a white reporter on a liberal South African newspaper. Your goal is to report on the atrocities of Apartheid that the white South African government had imposed on the black majority. Understanding that this information is considered treason you must plan an escape route out of the country. If caught you and your family could be put in jail. Your hope that once this information gets out that the major trading partners will put economic sanctions on South Africa to put pressure on them to abolish Apartheid. Finally come up with a political cartoon that represents your findings of Apartheid.</p>
A Midsummer Night's Dream	<ul style="list-style-type: none"> <li>• Individual perceptions can cause serious misunderstandings</li> <li>• Great literature paints vivid pictures and is timeless</li> </ul>	<ul style="list-style-type: none"> <li>• How do individual perceptions effect plot twists?</li> <li>• How does Shakespeare develop visuals in his writing?</li> <li>• In what ways do misunderstandings in Mid-summer Night's Dream relate to your life? Other lives?</li> </ul>	<p>Students will write and perform a version of A Midsummer Night's Dream based in a different setting and time</p>
Biomes	<ul style="list-style-type: none"> <li>• The structure of an organism affects its ability to function and survive.</li> </ul>	<ul style="list-style-type: none"> <li>• How would an animal be affected by the loss of a nonessential body part?</li> <li>• Does survival of the fittest mean that the weak can never survive?</li> <li>• What is weak?</li> </ul>	<p>The task is to create a model of an imaginary plant or animal that is capable of surviving in a given environment. Students will need to justify various structures and how they aid in the function and survival of their organism.</p>
The Comet is Coming (Physics)	<ul style="list-style-type: none"> <li>• Calculus deals with real life problems about change that standard geometry and algebra cannot.</li> </ul>	<ul style="list-style-type: none"> <li>• What do people use area under the curve for?</li> <li>• What ways do we have of finding the area under the curve?</li> </ul>	<p>The Comet is coming</p> <ul style="list-style-type: none"> <li>• Estimate areas and volumes as the sum of areas of tiles and volumes of cubes.</li> <li>• <u>The Comet is coming.</u> NASA has detected a comet that looks like it might come near the earth. They took several measurements of velocity with respect to time. You are the lead mathematician in a think-tank whose task it is to explain the location of the comet in reference to the earth with respect to time and to figure out how close the comet will come to Earth.</li> </ul>

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			You are to create a press release that uses the data gathered by NASA that explains your findings to either prepare the audience for a devastating event or to convince them they are safe. Your press release needs to explain the NASA's data using a graph and the meaning of the area underneath the velocity function. You must also give a definitive answer as to the closest the comet will come to earth.
Cell Biology	<ul style="list-style-type: none"> <li>• Cells are the building blocks for all living things.</li> <li>• Cells are the basis for an organisms structure and function.</li> <li>• All cells come from other cells.</li> </ul>	<ul style="list-style-type: none"> <li>• What are we made of?</li> <li>• What characteristics does an object need to be considered as living? Nonliving?</li> <li>• How important is the structure of a cell?</li> <li>• How do cells reproduce?</li> </ul>	Design a travel brochure for a trip to the cell. Indicate what type of cell you are visiting, what organelles you would visit and the function of the cells that you see.
Cell Structure and Function	<ul style="list-style-type: none"> <li>• Structure and function are interrelated and affect an organisms ability to survive.</li> <li>• There are varying degrees of complexity among organisms.</li> </ul>	<ul style="list-style-type: none"> <li>• How does the interrelationship between structure and function enable an organism to survive?</li> <li>• How would an organism's survival be affected if function and structure were not interrelated?</li> <li>• In regard to structure and function which is more complex – a unicellular organism or a multi-cellular organism?</li> <li>• What does it mean to survive?</li> </ul>	<ul style="list-style-type: none"> <li>• G.R.A.S.P.S.</li> <li>• G - Develop a clear understanding of how all cell parts are related to cell structure and survival and how they are interrelated.</li> <li>• R - You are the owner of a sports team and must make a management plan for your organization.</li> <li>• A – The audience includes all members of your organization who are being briefed on their responsibility to the success of the organization.</li> <li>S – You must relate the jobs entailed in a sports team (from management to players) to the parts of a cell.</li> <li>• P – Understand how cells, whether unicellular or multi-cellular, are like any other team – each part has a specific job function which is related either directly or indirectly to other parts.</li> <li>• S - The finished product will show accuracy, fluency, clarity, evidence of well constructed research.</li> </ul>
Coping With Catastrophe!	<ul style="list-style-type: none"> <li>• Culture/society shapes individual/institutional</li> </ul>	<ul style="list-style-type: none"> <li>• How did individuals/ Institutions respond to the Black Death?</li> </ul>	It is the summer of 1348, in Florence, Italy. The plague has taken hold but not yet peaked. Your task is to create a dialogue

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	<p>response to catastrophe.</p> <ul style="list-style-type: none"> <li>•Catastrophe/crisis often results in societal changes.</li> <li>•People respond to crisis in similar ways.</li> </ul>	<ul style="list-style-type: none"> <li>•How ere these responses shaped by culture /society?</li> <li>•How do people respond to crisis?</li> </ul>	<p>to escape the plague. What features of your solution would you have been discussing? What alternative courses of action might be open to your family? Given your level of knowledge, what are the pros and cons of various courses of action?</p> <p>Once all families have discussed their options and made their final decisions, they will meet as a group with the mayor and city council. As a group they will present a possible course of action and arguments for their particular course of action to the city council in order to persuade them to a specific course of action to stop the spread of the plague.</p>
Crime	<ul style="list-style-type: none"> <li>• Crime is based on culture’s learned standard of behavior of what is acceptable and unacceptable.</li> <li>•Social, racial and ethnic groups influence crime within a culture.</li> <li>•Freedom and crime impact on one another.</li> </ul>	<ul style="list-style-type: none"> <li>•Why do some parents teach aggressive “chest clubbing”? (And it is not against the law).</li> <li>•Is the underclass in all societies that commit the most crimes?</li> <li>•Why is the crime rate low in Japan?</li> <li>•Why is there less crime in autocratic, cultures?</li> <li>•Why are there more victims then crimes?</li> </ul>	<p>As an FBI criminologist, you have been assigned to investigate a crime comparison between the U.S. and China. You are asked to create a research report with charts and graphs. This report can be presented as a power point presentation. As a contracted criminologist you are not only to research this information, you are to theorize the reasons for similar and contrasting statistics and information.</p>
Customary Measure	<ul style="list-style-type: none"> <li>• The use of customary units of measure is an effective communication tool to accurately describe a student’s physical surroundings.</li> </ul>	<ul style="list-style-type: none"> <li>•Why measure?</li> <li>•Can “techniques” and estimation be used to measure without using measuring tools? In what situations and how so?</li> <li>•Are there instances when units of measure can be interchanged? When and how so?</li> </ul>	<p>The 76’ers have sponsored a contest for all area schools, and your school has won. The winning school will host Matt Geiger for the day. Since you are a homeroom representative, you have been selected to determine if there are any physical obstacles in your building which would limit his ability to participate fully in the school day. Your task is to go about your day with a cardboard likeness of Matt Geiger, assessing mobility. This task will culminate in a Power Point presentation detailing the results of your research.</p>
Death of a Salesman	<ul style="list-style-type: none"> <li>•A person needs a sense of identity to have a firm grasp on reality.</li> <li>•Modern American values often contradict or prevent the ideas of the founding fathers.</li> <li>•People often create illusions in order to deal with failure.</li> <li>•Moderation is a virtue; excess is destructive.</li> </ul>	<ul style="list-style-type: none"> <li>•What leads people like Willie Loman to exaggerate their successes?</li> <li>•How do “minor” characters like Charlie Berman function to illuminate the shortcomings and failures of the Loman family?</li> </ul> <p>How does the love within the Loman family ironically turn out to be destructive?</p> <ul style="list-style-type: none"> <li>•How does the tension of “city vs. nature” shed light on Willy’s problem?</li> </ul>	<p>Your task is to create a conversation between the characters, Charlie and Bernard, that they might have out the Loman family. You are to assume the point of view of these two secondary characters. Your target audience is your teacher and classmates. The challenge involves dealing with the complex reaction that these two must have to the Lomans. You will create a conversation to show that you understand the difference between the two families and that you have an understanding of the complex, ambivalent relationship with the Lomans.</p>
Delaware Canal	<ul style="list-style-type: none"> <li>• The Delaware Canal had a</li> </ul>	<ul style="list-style-type: none"> <li>•How did the Delaware Canal have a</li> </ul>	<ul style="list-style-type: none"> <li>•Write a newspaper editorial</li> </ul>

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	<p>major impact on the economic and cultural development of the Delaware Valley.</p> <ul style="list-style-type: none"> <li>•Government, business, and education all play an important role in solving problems in the community.</li> <li>•Education is an empowering factor in resolving problems in the community.</li> </ul>	<p>major impact on the development (economic and cultural) of the Delaware Valley?</p> <ul style="list-style-type: none"> <li>•How does government, business and education all play an important role in resolving problems in the community?</li> <li>•Why is education an empowering factor in resolving problems in the community?</li> </ul>	<ul style="list-style-type: none"> <li>•Create a museum exhibit</li> <li>•Write a journal entry</li> <li>•Reflect on mistakes made in a presentation</li> <li>•Compare two historical periods</li> <li>•Assume the role of a historical character.</li> </ul>
Electric Potential	<ul style="list-style-type: none"> <li>• Some people think of life in terms of how <u>everything works</u>, as opposed to how to <u>work everything</u>.</li> <li>• Capacitors store and release current by forming electric fields.</li> </ul>	<ul style="list-style-type: none"> <li>•What are the similarities and differences between gravity and electric fields?</li> <li>•How does the presence of an electric field interrelate to motions of charges, forces, and work on charges?</li> </ul>	<p>Have the students act as engineers. Design and build a large capacitor. The student needs to build the largest value (Farad) capacitor that can fit inside a film canister. The capacitor will be tested in an oscillator circuit for results.</p>
European Exploration of Meso America	<ul style="list-style-type: none"> <li>•Knowledge increases a civilization's desire/need for contact with other civilizations.</li> <li>•There are positive and negative results of interaction between civilizations.</li> </ul>	<ul style="list-style-type: none"> <li>•What impact do new technologies and inventions have on society?</li> <li>•What is a civilized society?</li> <li>•When are influences positive and negative?</li> </ul>	<p>Goal: Determine if a specific area of Meso America has been positively or negatively affected by European exploration. Students act as a sociologist that will determine if a specific part of Meso America has been positively or negatively impacted by European exploration. They will present their findings in a written report and power point presentation.</p>
Folk Tales	<ul style="list-style-type: none"> <li>• We often tell stories to tell truths that cannot easily be told</li> <li>• Stories exaggerate and highlight by design</li> <li>• We are the stories we tell</li> </ul>	<ul style="list-style-type: none"> <li>•How much do folk tale heroes reflect the values of culture?</li> <li>•What is the relationship between exaggerations and lies? When does an exaggeration become a lie? How are essential survival skills influenced by time and place?</li> </ul>	<p>Heroes Anonymous, a company that hires people for difficult challenges, is looking for new workers. Your task is to create an oral presentation that illustrates <i>your</i> personal heroic characteristics, to get you hired. Your job is to persuade them you fit the criteria of a hero. You need to be honest but creative in your self-evaluation, and use persuasive techniques in speaking. You will also create a business card and a poster advertising your heroic qualities in order to enhance your oral presentation. You will also</p>

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			explain why you are a better choice to be hired than [any hero studied, who is also applying for the job]
“Flowers for Algernon” – Daniel Keys	<ul style="list-style-type: none"> <li>• Life changing decisions often involve moral questions that must be thought out carefully.</li> <li>• People’s frames of reference determining how they interpret and appreciate literature.</li> <li>• In helping others with moral questions, being persuasive plays a crucial role.</li> </ul>	<ul style="list-style-type: none"> <li>• How does a person’s level of intelligence relate to his/her worth in society?</li> <li>• What are the benefits of failure?</li> <li>• How does a person’s frame of reference affect how he/she makes decisions?</li> </ul>	You are a graduate student research assistant with Howard Gardner. As an Emmaus graduate, you have been asked to make a presentation to the East Penn School Board. Several prominent community members will be attending. Develop a persuasive report in order to convince the school board and the community members to forgo traditional IQ testing in favor of using Gardner’s Assessments as the accurate and reliable means of gauging students; true intelligence. Gain the trust of the community and remember that I is a school board election year.
Food Science And Nutrition	<ul style="list-style-type: none"> <li>• What you eat and how you prepare what you eat will determine how you look and feel and perform.</li> <li>• When you learn how to prepare food, you increase your appreciation of it.</li> </ul>	<ul style="list-style-type: none"> <li>• How do you read and analyze a food label?</li> <li>• How do we know how much to eat and how to control our weight</li> <li>• How do you plan a well balanced menu using the Dietary Guidelines and the Food Guide Pyramid?</li> <li>• How does one prepare foods in a nutritious, wholesome way?</li> </ul>	Students will role-play a situation involving a client who has a dietary problem. Students will pair up. One student will act as the certified dietitian and the other student will act as the client. They will jointly decide what problem the client has. It may be an athlete’s eating plan designed for a football player, a diet for a diabetic, a low sodium diet, low cholesterol diet, a plan for a bulimic patient or one with anorexia nervosa. It may also be a weight reduction diet or a weight-gain eating plan. Eating plans and diets must be approved by the American Dietetic Association. The dietitian will counsel the client by explaining all facets of the condition and the special concerns related to it.
Genetics	<ul style="list-style-type: none"> <li>• The physical, chemical and behavioral characteristics of ALL organisms are influenced by DNA.</li> </ul>	<ul style="list-style-type: none"> <li>• Is behavior more strongly influenced by nature or nurture?</li> <li>• How is the information encoded by your DNA expressed?</li> <li>• What is the role of DNA in evolution?</li> <li>• Are genetically engineered organisms the wave of the future?</li> </ul>	As a genetic counselor, parents would like you to show them on paper, using a series of tri-generational pedigrees (at least), what physical characteristics their child would most likely possess. Also, they would like to know what genetically linked diseases you might encounter throughout life (i.e. diabetes, breast cancer, etc.) The clients expect to be informed of at least 10 potential characteristics (6 physical, 4 disease related) in a clearly understandable manner. Your stipend will be based upon the number of traits you are able to clearly explain!!
Going to the Café	<ul style="list-style-type: none"> <li>• Cultural differences and similarities exist.</li> </ul>	<ul style="list-style-type: none"> <li>• Is mastery of a language necessary to effectively communicate the essence of a message?</li> </ul>	You are a first year language student in the target culture with your school group. Your teacher gives you one hour for lunch. Your task is to go into a restaurant, find a table, ask for a menu,

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	<ul style="list-style-type: none"> <li>•Each language has its own pattern of speech and structure.</li> <li>•In order to communicate it is not necessary to know every word (Use what you know.)</li> </ul>	<ul style="list-style-type: none"> <li>•To what extent are grammar and vocabulary needed to communicate effectively?</li> <li>•Is culture an integral part of language learning?</li> </ul>	<p>order your food and drink and ask for the bill. You will be talking to the people at your table and the waiter or waitress. A partner will play the roles of the waiter/waitress and restaurant customers, but this name will be randomly drawn. You will also once have to assume the partner role.</p>
Health/ Wellness	<ul style="list-style-type: none"> <li>• Eating healthy contributes to good physical/mental health.</li> <li>•Dietary guidelines provide information to help make good choices.</li> <li>•Sound nutritional practices have lifelong effects on healthy.</li> <li>•Metabolism, age, activity level, and health issues are impacted by one's diet.</li> </ul>	<ul style="list-style-type: none"> <li>•Why are you what you eat?</li> <li>•What impact does societies image of the 'perfect body' have on our present day eating habits?</li> <li>•Why do Americans ignore dietary guidelines despite health repercussions?</li> </ul>	<p>Your task is to develop a T.V. dinner for senior citizens living on a fixed income. You are a nutritional engineer working for a major food supplier. It is important tat the dinner meet the nutritional needs of the elderly. It is also very important that the product looks good, taste good, and costs little. Create a sample packaged dinner.</p>
How Do Food Concerns Impact Food Choices (How Does What I Eat Tell You Who I Am)?	<ul style="list-style-type: none"> <li>• Food concerns have far reaching effects and consequences;</li> <li>•Food concerns require choices among ideas/values and needs/wants;</li> <li>•Food concerns occur throughout history;</li> <li>•Food concerns are multifaceted, complex, cyclical, and cultural.</li> </ul>	<ul style="list-style-type: none"> <li>•How do food concerns impact food choices</li> <li>•How does technology affect food production and consumption?</li> <li>•How does food reflect culture?</li> <li>•How do family lifestyles influence food consumption?</li> </ul> <p>How does one's definition of wellness drive food choices?</p> <ul style="list-style-type: none"> <li>•How do food norms differ with cultures?</li> </ul> <p>How can I eat more and still be healthy?</p> <p>How does food marketing influence food trends?</p>	<p>You are a University agricultural representative. You are contacted by a group of farmers concerned with poor crop productivity. They want you to propose an action plan which will identify the problem, the action to be taken, the environmental impact, and the possible results.</p>
Human Body	<ul style="list-style-type: none"> <li>• The body works as a system of interconnections and each element of the system both protects and demands from the others</li> </ul>	<ul style="list-style-type: none"> <li>• Thrive, survive, die: how much stress to the system can a body take? What's the difference between thrive and survive?</li> <li>•What does any organism need to survive or thrive?</li> </ul>	<p>Kids need to know how we work! Your job is to make and label a model of the human body with its systems. Your model will include the muscular – skeletal, digestive, respiratory, circulatory and nervous systems. You will present your model to a 1<sup>st</sup> grade class naming and explaining the systems, while also explaining and showing</p>

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			how things can go wrong, and how the body works to fix what goes wrong, and how medicine can help, too.
Ideological Conflict	<ul style="list-style-type: none"> <li>• Ideological conflicts are inevitable.</li> <li>• There are alternative ways to address conflicts.</li> </ul> <p>Resolution/victory is difficult to define in ideological conflict.</p>	<ul style="list-style-type: none"> <li>• Are ideological conflicts inevitable?</li> <li>• What alternatives are available to address ideological conflict?</li> <li>• How do you defeat an ideology?</li> <li>• When it is necessary to go to war?</li> <li>• How is foreign policy developed?</li> <li>• How do you know when you have “won” an ideological conflict?</li> </ul>	<p>A variety of foreign policy experts have been called to publicly debate the most effective policy, to deal with Muslim fundamentalist ideology.</p> <p>In preparation and during this debate you will need to:</p> <ul style="list-style-type: none"> <li>• Select a strategy which comes from traditional American policies for dealing with opposing ideology as found in the Cold War.</li> <li>• Develop an opening statement which connects the chosen strategy to the historical contextual success and explain why it would work in the present situation.</li> <li>• Prepare which would challenge anticipated opposing views.</li> <li>• Anticipate and prepare to answer questions which attack your point of view/</li> <li>• Distill your argument in a rebuttal which takes into account the opposition’s positions and purposefully discredit them.</li> </ul>
Matter	<ul style="list-style-type: none"> <li>• Changes at a subatomic level impact on the microscopic and macroscopic level.</li> <li>• Scientific models have changed over time, as technology has developed.</li> </ul>	<ul style="list-style-type: none"> <li>• How can changes at a subatomic level affect the visible world?</li> <li>• Does technological development change scientific thought? Or does scientific thought drive technological development?</li> </ul>	<p>You will be creating a visual representation about Matter and Energy for other students. You may create a comic book or an animated short to explain how the ideas about these have changed over time.</p> <p>You will introduce a new character “Ernie Election,” that acts out how the view of himself has changed over the years.</p>
Native American Art	<ul style="list-style-type: none"> <li>• We don’t need formal training to do art.</li> <li>• Artwork reflects the culture of the people.</li> <li>• Artwork provides us with information about culture.</li> <li>• Art changes with time, people’s ideas and resources.</li> </ul>	<ul style="list-style-type: none"> <li>• What is more lasting -- folk art or fine art?</li> <li>• Does form follow function or visa versa?</li> <li>• Are natural resources a factor in art work?</li> <li>• Is the social environment or natural environment more influential?</li> </ul>	<p>Create a Native American Style Vessel based on styles of a certain tribe researched that illustrates its culture, origin and language. Present an argument lesson to the officials of Lenape Art Museum on why your work should be included in the collection.</p>

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<p>Oscar Wilde's <i>Importance of Being Earnest</i></p>	<ul style="list-style-type: none"> <li>• Different social mores impact on social classes.</li> <li>• Peoples actions dictate others' opinions of them.</li> <li>• In a society different classes influence e its effectiveness.</li> <li>• A writer pulls from his surroundings to develop his craft.</li> <li>• A writer can bring himself into his work to enhance style.</li> </ul>	<ul style="list-style-type: none"> <li>• How does a writer personalize his work and develop his own style?</li> <li>• Do we have a caste system today?</li> <li>• What influences a writer?</li> <li>• How does a writer personalize his work and develop his own style?</li> </ul>	<p>You are seeking employment at an off beat greeting card company. You need to create anew line of cards aimed at poling fun of a current problem in the country. Develop a card, the front cover being a scene or target area of satire; the inside, an epigram and a satirical finish. You will need a paragraph of explanation to show strength of satire.</p>
<p>Periodic Table</p>	<ul style="list-style-type: none"> <li>• The periodic table is used to predict and explain the chemical behavior of matter.</li> </ul>	<ul style="list-style-type: none"> <li>• How is the periodic table arranged?</li> <li>• What does the periodic table enable in terms of prediction?</li> <li>• What criteria predict the behavior of an element?</li> <li>• How would scientists use the periodic table?</li> </ul>	<p>Create a brochure advertising the periodic table. The brochure must convince a client of the various ways the periodic table is used in scientific work. It must also include "testimonials" of specific kinds of discussions that can be made by using the table. The brochure must also include illustrations which help describe the organization and chemical trends.</p>
<p>Photo-synthesis and Respiration</p>	<ul style="list-style-type: none"> <li>• Photosynthesis and Respiration are opposites of each other and make up a complex biochemical pathway.</li> <li>• Photosynthesis produces food and oxygen by using carbon dioxide and energy from the sun.</li> <li>• Cellular respiration breaks down food into usable energy (ATP) in the presence or absence of oxygen.</li> </ul>	<ul style="list-style-type: none"> <li>• How are the end products of respiration recycled in photosynthesis and vice versa?</li> <li>• How is ATP formed in the food you eat?</li> <li>• Could life exist without plants?</li> </ul>	<p>The president of the United States has contacted your lab. He has employed you to create a new plant species. However, due to a rapidly spreading wildfire, a cloud of smoke has blocked the sun out. So this new plant must be able to grow and produce food using minimal sunlight. Create a blueprint of your new plant, what its growth requirements are, how you will create it and how readily available it is.</p>
<p>Political and Economic Systems</p>	<ul style="list-style-type: none"> <li>• The values of a society form the basis of its government and economic structure.</li> <li>• Scarcity drives government</li> </ul>	<ul style="list-style-type: none"> <li>• How do a society's values influence its economic and political structure?</li> <li>• Why is ther4e scarcity</li> <li>• Why do some nations experience more</li> </ul>	<p>The U.N. has put you in contact with a group of people who want input in creating the best functioning economic system. Since you are an economic advisor well versed in the benefits and weaknesses of many economic systems, the new leaders would like your evaluation of the best ideas from all of these structures. The leaders specifically would like a blueprint of an economic</p>

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	to make decisions about the distribution of resources.	scarcity than others?	system that includes specific ideas and justification of each element as well as the system as a whole.
Pre-Revolutionary War Times Colonies/ British 1763-1775	<ul style="list-style-type: none"> <li>• Revolution is a change in government brought forth by conflict.</li> <li>• Well-intended government policies often go awry.</li> <li>• People's actions and reactions often reflect a need to protect their ideas and beliefs.</li> </ul>	<ul style="list-style-type: none"> <li>• What injustices have you faced in your life?</li> <li>• To what degree are you willing to defend your beliefs?</li> <li>• What could bring forth revolution in our country today?</li> </ul>	You will be asked as an editor to create a New England colonial magazine that has to persuade loyalists and undecided citizens of New England to join the cause for freedom. Your magazine will be five pages in length – each page covering an aspect of the unit of study. Page one is a cover including a political cartoon. Page two will be an editorial column. Page three includes a news article. Page four is an advertisement supporting patriotic groups, and page five is an interview report. Your grade will come from standard point values and rubrics.
Real World Applications of Problem Solving	<ul style="list-style-type: none"> <li>• Equation solving can be used in everyday life.</li> <li>• Equation solving through applications creates a more efficient system for learning higher level mathematics.</li> </ul>	<ul style="list-style-type: none"> <li>• Can you illustrate several different algebraic equations from a real life application?</li> <li>• How can you use variables in real life situations to solve problems?</li> </ul>	When contractors give us an estimate on home improvements, how can we tell if the cost is reasonable? You have been asked by a homeowner to submit an estimate for the cost of a rectangular patio. The patio must be built using a fixed budget and must comply with local building codes. Create a detailed sketch(s), building a maximum sized patio on this fixed budget while using the local building code restrictions. (Students will be given code restrictions, cost figures for materials, labor costs and a 20% builder profit). Be sure to show all calculations so that the homeowner will be able to understand your conclusion.
Settlement to Independence	<ul style="list-style-type: none"> <li>• People want some form of representation in government.</li> <li>• There are two sides to every story/conflict.</li> <li>• People settle where resources are available.</li> </ul>	<ul style="list-style-type: none"> <li>• Why do people want government representation?</li> <li>• Why do people seek independence?</li> <li>• Why are some locations on which to settle more favorable than others?</li> <li>• What would life be like if the colonists hadn't declared independence?</li> <li>• Why did Loyalists and Patriots disagree on certain issues?</li> </ul>	(Three Person Project)  You are a moderator, loyalist or patriot on a weekly news show. Your job is to be part of a debate between a Patriot/Loyalist. As the moderator your job will be to have participants give their points of view in a dignified manner with both sides having equal say. The debate members must argue conflict issues and have evidence to support their side. The audience is T.V. viewers in the United States and great Britain.
Similar Figures	<ul style="list-style-type: none"> <li>• Proportional reasoning is useful in various situations to show relationships between similar figures.</li> </ul>	<ul style="list-style-type: none"> <li>• When do we need proportions?</li> <li>• In what ways are proportions used in everyday life?</li> </ul>	Write a letter to your parents explaining why you need a bigger bedroom. Include the actual dimensions of your bedroom, the actual dimensions of the bases of all the objects in your bedroom, a scale drawing showing what one inch equals in feet, and the proportions you used to convert the actual dimension to your scale.

## Unit Outlines: Questions, Understandings, Task Ideas

Sonnets	<ul style="list-style-type: none"> <li>•Poetry is an elastic form of communication and self expression that can address a variety of audiences.</li> <li>•Poetic forms and subjects change over time.</li> </ul>	<ul style="list-style-type: none"> <li>•What makes a great poem?</li> <li>•Why do poets use different poetic forms?</li> <li>•What is the relationship between "sound and sense:"?</li> <li>•How do great poets develop their themes, voices and images?</li> </ul>	You are the newly selected Poet Laureate of the E.U. and have been commissioned to write a sonnet about 9/11 and the ensuing events in the Middle East. You are to read it on <b>Al Jazeera</b> , (NN), BBC, and you will be published in <b>Aris Newyc</b> . Your goal is to promote empathy and understanding between the West and the Islamic World. Use poetic devices, avoid clichés, and be aware that this poem will be translated.
Statistic & Data Analysis	<ul style="list-style-type: none"> <li>•Being able to analyze data meaningfully leads to the ability to apply results of investigations.</li> <li>•Scrutinizing representations of data leads to informed decision making and logical conclusions</li> </ul>	<ul style="list-style-type: none"> <li>•What is an appropriate way to organize data?</li> <li>•How do we benefit from data analysis?</li> <li>•What is a good data analysis and why is it important?</li> </ul>	The task is to go before the school board to get a school rule changed. The student will need to prepare an oral presentation supported by visual aids (graphs) to persuade the board. Students will need to gather a representative sample of data, compile several types of graphs and measures of control tendency, and choose graphs and analysis that best support their persuasive argument.
The Great Depression	<ul style="list-style-type: none"> <li>•The Depression affected the structure and function of families.</li> <li>•The Depression caused a shift in the role of Government.</li> </ul>	<ul style="list-style-type: none"> <li>•Should the Government play a role in a nation's economy?</li> <li>•How can economic fluctuations be both beneficial and detrimental to society?</li> </ul>	Create a video documentary/interview of a variety of people who can answer insightful questions about their experiences in the Great Depression.

## Unit Outlines: Questions, Understandings, Task Ideas

<p>Translating Catullus</p>	<ul style="list-style-type: none"> <li>• How does Catullus' poetry break with tradition? Does a poet have to break with tradition to be considered great?</li> <li>• Why are many of the poems of Catullus considered "modern"? What does it mean to be "modern"?</li> </ul>	<p>Because of your expertise in Latin, a publishing company has approached you about doing a translation of Catullus' most significant poems. They have asked you to make a literal translation side-by-side with a rich and vivid translation to help students of Latin understand the science and art of translation. You will need to take one poem and produce two versions of it for consideration by the editors. You are also asked to write a brief commentary on the "before" and "after" along with some notes on why it is such a great poem, and he is such a great poet. Your goal is to convince them that they picked the right person for the job.</p>	
<p>The Water Is Wide</p>	<ul style="list-style-type: none"> <li>• Discrimination is rethought when an individual walks in another's shoes.</li> <li>• Discrimination is multi layered.</li> <li>• Acceptance does not end discrimination.</li> </ul>	<ul style="list-style-type: none"> <li>• Can you really walk in another's shoes?</li> <li>• Have laws "enabled" discrimination?</li> <li>• How do cultural factors impact tolerance and discrimination?</li> </ul>	<p>You are a photo journalist who wants to see an article in Time Magazine on Pat Conroy and his experiences living on Yomarrow Island (an African American community.) Since this is a national magazine give a broad overview of his life during that year on the island. Please include photographs and interview quotes, etc. Quizzes, tests, oral dis -cussion on various writings such as journal entries</p>
<p>U.S. Constitution</p>	<ul style="list-style-type: none"> <li>• Governments are created as a means of organizing power to meet the needs of the people.</li> <li>• Democratic ideals are used to protect the individual from the government's abuse of power.</li> <li>• Government must carry out three functions; make laws, interpret laws, enforce laws.</li> </ul>	<ul style="list-style-type: none"> <li>• If a democracy is such an ideal form of government, why do so many democracies, fail or fail to exist?</li> <li>• Is the United States a true democracy?</li> <li>• To what degree did the framers of the Constitution believe in democratic principles?</li> <li>• What conditions are necessary for a democratic government to exist?</li> </ul>	<p>Your task is to create a Constitution for a developing country based on early American democratic principles. You will be assigned a role to play as a delegate to a Constitutional Convention. Your challenge will involve creating a new democratic government to meet the needs of your country. You must work with fellow delegates to create a written Constitution to ensure individual rights and freedom from the possible abuse of governmental power. A successful Constitution must be accepted by a majority of the delegates and secure the protections and goals of your constituents.</p>
<p>Understanding Through Tolerance</p>	<ul style="list-style-type: none"> <li>• Parallels exist among the three major "revealed" religions.</li> <li>• Tolerance is necessary for a peaceful existence in our global culture.</li> <li>• Individuals can find happiness within themselves.</li> </ul>	<ul style="list-style-type: none"> <li>• How does one's culture, religion, and government relate to happiness/peace?</li> <li>• How do we learn tolerance for others?</li> </ul>	<p>Your task is to argue a side of a court case involving First Amendment freedoms. You are a lawyer arguing the case you have been assigned. Your audience is the Supreme Court, and you must convince them to side with your case. You will create a 2 minute presentation that outlines your case. You are responsible for the background (including knowing your oppositions case) and specific circumstances supporting your case.</p>

## Unit Outlines: Questions, Understandings, Task Ideas

<b>NJ history process standards</b>  <b>Essential Q's of US History</b>	1. Analyze how historical events shape the modern world.	2. Formulate questions and hypotheses from multiple perspectives, using multiple sources.	3. Gather, analyze, and reconcile information from primary and secondary sources to support or reject hypotheses.	4. Examine source data within the historical, social, political, geographic, or economic context in which it was created, testing credibility and evaluating bias.	5. Evaluate current issues, events, or themes and trace their evolution through historical periods.	6. Apply problem-solving skills to national, state, or local issues and propose reasoned solutions.	7. Analyze social, political, and cultural change and evaluate the impact of each on local, state, national, and international issues and events.	8. Evaluate historical and contemporary communications to identify factual accuracy, soundness of evidence, and absence of bias and discuss strategies used ... to communicate with the public.
A. Who is an American? Says who? How has the answer changed and why?								
B. Who has the power and who doesn't, in theory and in fact? How and why has the location & balance of power changed over time?								
C. What is the ideal role of our government? When is it too much, too little, just right?								
D. <i>E pluribus Unum</i> – what should it mean? What has it meant?								
E. How democratic is the US? How has democracy been advanced and been undermined in our history, and why?								
F. How & why has America changed? When has it been evolution and when revolution? Which debates are timeless and which new?								

## Unit Outlines: Questions, Understandings, Task Ideas

<p style="text-align: center;"><b>NJ history process standards</b></p> <p style="text-align: center;"><b>Essential Q's of US History</b></p>	1. Analyze how historical events shape the modern world.	2. Formulate questions and hypotheses from multiple perspectives, using multiple sources.	3. Gather, analyze, and reconcile information from primary and secondary sources to support or reject hypotheses.	4. Examine source data within the historical, social, political, geographic, or economic context in which it was created, testing credibility and evaluating bias.	5. Evaluate current issues, events, or themes and trace their evolution through historical periods.	6. Apply problem-solving skills to national, state, or local issues and propose reasoned solutions.	7. Analyze social, political, and cultural change and evaluate the impact of each on local, state, national, and international issues and events.	8. Evaluate historical and contemporary communications to identify factual accuracy, soundness of evidence, and absence of bias...
G. In terms of key policy decisions and new law: How does a bill <i>really</i> become law? How important is the 'almighty dollar'? The 'people'? the elite? Religion? Politics? Media? etc.								
H. What is the American Dream? Is it real or a hoax? What has been its impact, regardless?								
I. What is the pioneer spirit and how has it influenced national politics and international relations? When has it helped us and when has it hurt us?								
J. Why have we fought? When have those fights been just or needed and when wrong or foolish? How did we get in and how did we get out, and why?								
K. Life, liberty & the pursuit of happiness: What does it mean? Are we more or less free than our founders envisioned?								