



edisonlearning®

Learning Across a Lifetime™

Project-Based Learning eCourse Catalog



Digital Learning Solutions

PBL eCourses™

Educators and students have come to understand and embrace the benefits of online learning. The dynamic and rigorous coursework utilizes the power of multimedia to increase student engagement, and the design better matches a student's learning style and needs. Each course can be implemented in a virtual or blended learning program.



Today, knowing how to solve problems, work collaboratively, and think innovatively are becoming essential real-world skills for students. This is why EdisonLearning has enhanced its eCourses with a new and innovative Project Based Curriculum which demonstrates:

- ✓ Increased engagement
- ✓ Improved performance
- ✓ Preparation for college, work, and life

This enhancement is a perfect complement to the eCourse curriculum, which is competency-based and assessment driven. The 48 Mastery Projects, implemented in 12 Project Based Learning courses, are not only inquiry-based, but help students connect the standards-based curriculum to both community and global applications.

EdisonLearning has developed content in partnership with GLM and CAIU and will offer the following PBL eCourses, each containing a total of 4 Mastery Projects.

Project Based eCourses

+ English 1
+ English 2
+ English 3

+ English 4
+ World History
+ US Government

+ Economics
+ Earth Science
+ Physics

+ Biology
+ Algebra 1
+ Algebra 2

Mastery Projects

Mastery Projects are an excellent project-based learning solution for any brick and mortar or blended learning classroom! Each Mastery Project can be purchased independently of the PBL course, is aligned to the Common Core State Standards Initiative and Next Generation Science Standards, and serves as a supplemental curriculum comprised of:

INTERNAL INVESTIGATIONS where students explore key concepts, vocabulary, and formulas necessary to understand and explore thematic content

EXTERNAL INVESTIGATIONS where students connect the concepts of the project to their families, communities, and peers through field experiences and research

ACTION PROJECTS where students apply the concepts of the Mastery Project to solve a problem presented in the challenge scenario and demonstrate a global application of their understanding which combines hard and soft skills

Each project gives students the opportunity to connect both foundational and abstract concepts to the world around them through a series of 6 to 8 engaging and interactive lessons. Each Action Project results in a tangible artifact of the student's understanding, such as a presentation, blog, podcast, or product which could be shared through a digital portfolio. Over the course of roughly 15 hours, a Mastery Project can infuse the learning environment with contextualized, applicable, and experimental calls to action and prepare students for post-secondary success.

Premium High School *eCourses*[™] Options & Details

• Course/item available
 ✓ Course with NCAA approval

Course Name	Length	Course Type	Available Options		
		Project Based	Diagnostic Test	Progress Test	
English	English 1	Year	✓		•
	English 2	Year	✓		•
	English 3	Year	✓		•
	English 4	Year	✓		•
Social Studies	Economics	Year	✓		
	US Government	Year	✓	•	•
	World History	Year	✓	•	•
Science	Biology	Year	✓	•	•
	Earth Science	Year	✓	•	•
	Physics	Year	✓	•	•
Math	Algebra 1	Year	✓	•	•
	Algebra 2	Year	✓	•	•

High School Mastery Project Options & Details

Course Name		Guiding Question
English 1	Memory	What do your memories say about who you are?
	This I Believe	What do you believe and why?
	Poetry Reading	How do you become a poet?
	Censorship Presentation	Why have books been banned throughout history?
English 2	Hero's Journey	What is the path of a hero?
	Canon Defense	What is the value of a book?
	Freedom Song	What is your freedom song?
	Propaganda Remix	How can you speak truth to power?
English 3	Meaning of Life	What is the meaning of life?
	Origin Story	How can stories help you understand people and places?
	American Dream Podcast	What is the American dream?
	Dramatic Dialogue	How does drama address social issues?
English 4	Rhetorical Speech	What is essential about speaking and listening?
	Gothic Conventions	What is Gothic about art?
	Spot Piece	How do you write about the world?
	Shakespearean Sonnet	What does it take to write a sonnet like Shakespeare?
World History	Mural Design	How do murals represent the voices of their time?
	Revolutionary Rhetoric	What is the rhetoric of revolution?
	Photo Essay	What can photography tell you about war and peace?
	Constitutional Article	What does self-government look like in action?
US Government	Independent Study	How is a nation argued into being?
	Policy Letter	How do you propose legislation?
	Unity Poster	How do you unite an audience around a message?
	Court Ruling	What is the purpose of the judicial branch?
Economics	College ROI	How do you determine the value of your college education?
	Investment Portfolio	How do you generate wealth in your life?
	Currency	Why does currency have value?
	Tax Plan	How do taxes represent the relationship between citizens and government?



High School Mastery Project Options & Details

Course Name		Guiding Question
Earth Science	Climate Change Analysis	How has Earth's climate changed over time, and what does it say about the future?
	Earth's Formations	How does movement below the Earth lead to phenomena on the Earth's surface?
	Climate Forecast	How will weather change over the next fifty years?
	Marine Ecosystems	How do marine ecosystems sustain life?
Physics	Tool Design	Why and how can you make better tools?
	Circular Motion	How do the principles of physics make amusement parks daringly fun, yet curiously safe?
	Circuit Design	How do electricity's characteristics make it efficient and useful?
	Musical Instrument	What makes sound so complex, yet so simple?
Biology	Scientific Method	How is life defined and studied?
	Plant Mimicry	What would a plant do?
	GMO Debate	How do you defend a position on genetically modified organisms?
	Body Mapping	How do we map the impact of diseases on the body's system?
Algebra 1	Water Awareness	What if you turned on your tap and nothing came out?
	Graphing Resources	How much energy is required to fuel society?
	Art in Numbers	How do we interpret our culture through numbers?
	Epidemic Map	How do you quantify the spread of an epidemic?
Algebra 2	Wellness Plan	How can math help you understand the intricacies of health?
	Acceleration Study	How does mathematics guide our understanding of movement?
	Population Comparison	How can you use mathematics to categorize and identify populations?
	Gameplay	How does play enrich our lives?



Language Arts | English 1

Memory

WHAT DO YOUR MEMORIES SAY ABOUT WHO YOU ARE?

The C. G. Jung Society in St. Louis strives to “deepen understanding of the work of Carl Jung and analytical psychology.” To achieve this mission, the society is holding a writing contest. They are accepting submissions of short stories that recreate a memory or experience for the audience. Stories must be 800–1,000 words in length and allow readers to experience a specific memory from their lives.

This I Believe

WHAT DO YOU BELIEVE AND WHY?

The CBS Radio Network program This I Believe is created by “an international organization engaging people in writing and sharing essays describing the core values that guide their daily lives.” This I Believe is always looking for new submissions that tell brief, personal, and positive stories from diverse perspectives. Contributors must first write an essay and then create an audio recording that could be featured in their podcast series.

Poetry Reading

WHAT DO BECOME A POET?

During this year’s National Poetry Month, the Poetry Archive shared an exciting request: The nonprofit organization is seeking original, brand–new audio recordings by teens for its website. You will be featured as a poet in the Hear Now: Youth Voices archive, and have been asked to write, read, and analyze your own poem for this project. Perhaps you’ve already found great poetic inspiration in the environment around you and discovered a poetic form you really want to practice. The Poetry Archive has asked you to submit a document that includes your poem, a link to an audio recording of your poem, and a poet’s statement explaining your muse, as well as the form, imagery, and devices you chose.

Censorship Presentation

WHY HAVE BOOKS BEEN BANNED THROUGHOUT HISTORY?

The American Library Association (ALA) organizes an annual event each fall that celebrates the freedom to read. This year, they are asking students to submit profiles of their favorite banned books so the public can learn about each case and gain a broader understanding of the extent of censorship in schools and society. The ALA is proposing presentations be submitted in a specific format, which is outlined in the project rubric.



Language Arts | English 2

Hero's Journey

WHAT IS THE PATH OF A HERO?

At points in every life, there are calls for adventure and challenges to face. Heroes emerge when these challenges are met with courage and determination. Whether it is a hero who saves the world, a doctor who saves a life, or a person that stands up for someone's fundamental rights, we are surrounded by everyday heroes. A new comic book publisher is starting a series of graphic novels that profile everyday heroes, drawing inspiration from fictional heroes from popular culture. They are looking for character ideas that can be turned into full graphic novels, turning ordinary people into extraordinary role models. Submissions must include an explanation as well as a series of drawings that highlight the major plot twists and stages of the ordinary hero's life, while showing how they share characteristics with familiar fictional characters.

Canon Defense

WHAT IS THE VALUE OF A BOOK?

Your state's board of education is updating its required reading lists for all high school subject areas. The board has created an advisory group to pull the best ideas together and help support this endeavor. As a student advisor for the new high school literary canon, you will share your personal recommendation of a book to be added to the reading list. Include highlights about the book to help persuade your audience that it should be added. You have been asked to prepare an engaging slide show presentation to recommend your book.

Freedom Song

WHAT IS YOUR FREEDOM SONG?

Howard Zinn's "Voices of a People's History" project is hosting a poetry slam that honors past freedom fighters and inspires a new generation of leaders to fight for equality. You have been given a 2 to 3 minute time slot to present a freedom song in two parts. In the first part, you will embody the spirit of a civil rights leader whose work you find inspiring, and introduce who they are, the challenges they faced, and how they overcame them by applying sarvodaya. In the second part, you will perform your own freedom song by defining a challenge from your life and explaining how you will face it through sarvodaya.

Propaganda Remix

HOW CAN YOU SPEAK TRUTH TO POWER?

Building from the success of "Whose Values?" – American artist Barbara Kruger's collaborative work with high school students in Los Angeles – the Museum of Contemporary Art and Institute for Propaganda Analysis are launching a digital exhibition called "Propaganda Remix," featuring artwork that responds to propaganda in general or specific terms. You have been asked to submit an original piece of visual art for the online collection. Collage, poster, graphic design, and painting are all acceptable forms. Whether your work sends a message about the concept of propaganda or addresses a specific example of targeted messaging, your submission should also include an artist's statement explaining your thought process and design.



Language Arts | English 3

Meaning of Life

WHAT IS THE MEANING OF LIFE?

Just before the winter holidays in 1988, Life magazine published a special edition called “The Meaning of Life.” The editors asked “scientists and theologians, authors and artists, celebrities and everyday sages on the street” about their views on the meaning of life, and invited “seven photographers who captured the meaning of life on a single frame of film.” Now, in this new century, Life magazine has decided to recreate this project in digital form with the hope of encouraging dialogue, creativity, and reflection about why we are here from a wide variety of voices. Life is calling on students from all over the world to contribute by producing works of creative nonfiction that answer the question “What is the meaning of life?” through the eyes of another human being.

Origin Story

HOW CAN STORIES HELP YOU UNDERSTAND PEOPLE AND PLACES?

You have been asked to contribute a creation story for a new anthology titled Other Worlds. Your job as storyteller is to convey an environment using descriptive language and etiology, so that your audience will understand the origin of a specific feature or place. Using your knowledge of global creation stories and your understanding of key story elements and literary devices, write your own creation story explaining some thing or place. Your story should captivate your audience, so be creative, descriptive, and intriguing.

American Dream Podcast

WHAT IS THE AMERICAN DREAM?

The independent, teen-produced podcast program Blank Journal seeks to engage young people in writing and sharing essays describing their lives and beliefs by posting journal prompts that promote reflection and encourage creative expression. The theme of next month’s Blank Journal podcast is “The American Dream,” and the program is looking for submissions that explore the meaning of this phrase today, the questions it raises, and the challenges people might face in realizing it. The Blank Journal prompt is “What does the American dream mean to you?” In order to respond, contributors must first write an essay (script) and then create an audio recording (podcast) that could be featured in the podcast series!

Dramatic Dialogue

HOW DOES DRAMA ADDRESS SOCIAL ISSUES?

The Brooklyn Museum, home of “The Dinner Party” by Judy Chicago, started a literary contest open to all high school students to create a dialogue featuring women from history, discussing their roles in society. The dialogue must address the question “What are the different roles of men and women in society?” Submissions must include a script of the dialogue between yourself and at least two notable women.



Language Arts | English 4

Rhetorical Speech

WHAT IS ESSENTIAL ABOUT SPEAKING AND LISTENING?

You have been asked to submit an original speech to the website Speechify answering the question “What is worth preserving?” To make sure you produce an engaging and effective response, Speechify requires you to incorporate the three rhetorical appeals – ethos, logos, and pathos – in your message. Consider how you will use both facts and opinions in answering the question, while aiming to keep a general audience actively listening to your words.

Gothic Conventions

WHAT IS GOTHIC ART ABOUT?

Recent data on book sales across the United States has revealed a major increase in readers’ interest in all things Gothic. Leading publishing companies are looking to produce new works of fiction written by and for young people within this genre, hoping to capture the imaginations of these writers and readers. Because of your creativity and familiarity with Gothic conventions in art and literature, you have been asked to propose an idea and illustration for a new Gothic novel – summarizing the plot, main characters, and setting in a synopsis.

Spot Piece

HOW DO YOU WRITE ABOUT THE WORLD?

The New York Times has launched a new section called “On the Spot,” which welcomes youth studying journalism to report on local events by crafting a spot story worth of publication. Because of your knowledge of what drives the news, how it is structured, and experience documenting a local event, you’ve been recruited as a spot news reporter.

Shakespearean Sonnet

WHAT DOES IT TAKE TO WRITE A SONNET LIKE SHAKESPEARE?

William Shakespeare’s home stage, the Globe Theatre in London, has announced a sonnet competition to honor the verses embedded in some of his greatest plays, as well as to celebrate the dramatist’s collection of poetry and mastery of the form. The competition is open to high school students from around the world who must write and perform an original poem that follows the structure and rules of the Shakespearean sonnet. Poets are asked to write be inspired by their own experiences, while conveying a universal theme to a global audience.



Science | Earth Science

Climate Change Analysis

HOW HAS EARTH'S CLIMATE CHANGED OVER TIME, AND WHAT DOES IT SAY ABOUT THE FUTURE?

You have been asked to present as a youth delegate at the United Nations Framework Convention on Climate Change (UNFCCC). The UNFCCC is a yearly conference held by world leaders to discuss the issues around climate change. This is a great privilege! You will need to prepare a presentation in the format of a letter or infographic. The purpose of this presentation is to use scientific evidence to educate your audience and explain the extent to which humans are affecting the climate. Your job is to provide research, strategies, and predictions to encourage your audience to take action.

Earth's Formations

HOW DOES MOVEMENT BELOW THE EARTH LEAD TO PHENOMENA ON THE EARTH'S SURFACE?

You have been tasked with creating a geo-biography of an earthquake or volcanic site for a new museum opening in your town. The museum is looking for creative entries to tell the story of a geographical site. The purpose of your entry is to create a deeper connection between this place and people you know. You will select a place, describe its formation, and present key insights. Your entry can take the form of a comic strip, video, or narrative with images.

Climate Forecast

HOW WILL WEATHER CHANGE OVER THE NEXT FIFTY YEARS?

You have been recruited as part of the National Weather Services new weather prediction team. Your job is to create a weather forecast for your city in the for the short and long-term. Using research, climate models, and personal observations, you will present your short-term prediction. Next, you will help the National Weather Service predict weather patterns that could occur up to 50 years from now. You are on the cutting edge of research and will be required to submit your findings as a visual presentation or video.

Marine Ecosystems

HOW DO MARINE ECOSYSTEMS SUSTAIN LIFE?

Your regional aquarium is updating its school program to promote education about marine ecosystems. As part of the program, students will participate in a guided tour of the aquarium and go home with a book from a series that profiles different marine organisms, their habitats, and the impact that humans are having on their future. As an expert in marine life, you have been asked to contribute a book to the series, written from the perspective of one marine organism. Your book will educate elementary school students about oceans through a story and illustrations, and inspire the next generation to care for these ecosystems, which are essential to all life on Earth.



Science | Physics

Tool Design

WHY AND HOW CAN YOU MAKE BETTER TOOLS?

The current market trends suggest that the cooking, gardening, and automotive tool industries are profitable. The problem within these industries is that not everyone has the right tools, nor do the existing tools work for everyone. Jak Tool Company sells tools used in each of these industries and has hired you to redesign a tool based on user needs. Your mission is to use what you learned about physics as well as what you learned in the interview you conducted to create a better tool that maximizes the output based on the energy put in. Based on the user's needs and wants, create a new design for a tool to better serve the client.

Circular Motion

HOW DO THE PRINCIPLES OF PHYSICS MAKE AMUSEMENT PARKS DARINGLY FUN, YET CURIOUSLY SAFE?

Visiting amusement parks is a quintessential summertime activity. Recently, there has been a push to bring back retro rides such as the Ferris wheel and merry-go-round. You will use the research you have gathered on the 1893 Ferris wheel or another ride that uses circular motion to redesign it with a different target audience in mind. Your engineering firm, BuildersRUs, has been contracted by the city of Tiny to help construct a modified circular motion ride for their newly built amusement park. You and the others on your design team are tasked with constructing a scale drawing of the new ride. You will need to be able to sell your design with a project pitch. The city officials will then select the model they like best, based on safety and efficiency.

Circuit Design

HOW DO ELECTRICITY'S CHARACTERISTICS MAKE IT EFFICIENT AND USEFUL??

Your city is in dire need of green ideas to create energy-efficient houses within city limits. The mayor is searching for unique electrical designs from students around the city in the hope of ushering in a new era of efficient buildings. Your mission is to design an energy-efficient house. You will accomplish this by creating a drawing of your circuit (using one switch, at least five resistors, and at least one parallel branch), completing calculations to show the efficiency of your circuit, and creating a presentation showcasing its energy-saving qualities.

Musical Instrument

WHAT MAKES SOUND SO COMPLEX, YET SO SIMPLE?

The Landfill Harmonic, which produces homemade instruments from discarded materials, has just arrived in your town for a one-week stay, and they only have two days before their first concert. Unfortunately, their entire string section lost their luggage at the airport, so instead of being able to visit families and schools and teach workshops, they are going to be stuck building new instruments – unless you can help.



Science | Biology

Scientific Method

HOW IS LIFE DEFINED AND STUDIED?

Your local children's museum is planning a STEAM (science, technology, engineering, art, and mathematics) exhibit to present citizen science projects. You've been invited to contribute.

Plant Mimicry

WHAT WOULD A PLANT DO?

You are working for a biomimicry design firm and are in the early stages of research for a new product. You will be presenting your research to your board of directors, and they would like to know about plants and what we can learn from them in terms of breakthroughs for design and engineering. First, identify a plant species that intrigues you or identify a human problem that could be addressed through an inspiring plant species. Then, create a presentation to share with the board that includes the species' unique adaptations to its environment, and how that information can be applied to human design.

GMO Debate

HOW DO YOU DEFEND A POSITION ON GENETICALLY MODIFIED ORGANISMS?

You are a resident of a rural town, and your town is trying to decide whether or not to let GMO seeds into your community. You've heard stories from other communities about increased yields and profits, but you've also heard stories about farmers going into debt because of the high costs of seeds, fertilizer, and pesticides.

Body Mapping

HOW DO WE MAP THE IMPACT OF DISEASES ON THE BODY'S SYSTEM?

You are a medical specialist who has been asked to present a patient case study at a national conference for other doctors and medical specialists. The panel of organizers is interested in hearing stories about individual patients and their experiences with diseases. Using your research from this project, create a patient profile and an anatomical drawing based on a real or fictional person, that allows your audience to experience what it's like to have the disease you researched.



Social Studies | World History

Mural Design

HOW DO MURALS REPRESENT THE VOICES OF THEIR TIME?

The arts council in the community where you live has commissioned students to sketch an image that will be used to create a large-scale public mural. A group of local citizens and political leaders have gathered and identified the need for murals telling the stories of their neighborhoods. Using your knowledge of the art form – particularly prehistoric, Renaissance, and contemporary murals – and inspiration from the examples you’ve studied, create a sketch of a mural to be displayed in your neighborhood to submit to your patron, the arts council. Along with your sketch, compose an artist’s statement that explains how your image represents the community and contributes to the millennia-old tradition of murals.

Revolutionary Rhetoric

WHAT IS THE RHETORIC OF REVOLUTION?

Because of your knowledge of the French Revolution and the revolutionary rhetoric of the Declaration of the Rights of Man and of the Citizen of 1789, the grassroots organization People for Political Progress has asked for your support to craft a brand new declaration of rights that will be shared across the airwaves to inspire change. What group will you help empower by articulating their goals and identifying their rights? People for Political Progress has asked for your declaration of rights in the form of a single typed document (intro, articles, and conclusion), including a link to the audio recording.

Photo Essay

WHAT CAN PHOTOGRAPHY TELL YOU ABOUT WAR AND PEACE?

Seeds of Peace is an international pacifist organization whose mission is to prevent war and conflict through education, creativity, and community. The group has sent out a call for submissions for a new virtual exhibit that seeks to shift the emphasis on militarism around the world toward a focus on the foundations for peace. With this virtual exhibit, Seeds of Peace is seeking answers to this question: What are the seeds of peace? Contributors to the online exhibit are asked to share their responses to this question in the form of a photo essay – a set of photographs that combine to tell a story – illustrating the seeds of peace within their own communities. How will you define and document your vision of peace?

Constitutional Article

WHAT DOES SELF-GOVERNMENT LOOK LIKE IN ACTION?

Your city formed a Youth Assembly of High School students to draft amendments to the Constitution of your country, using Gandhian principles of nonviolent resistance, namely swaraj, or self-government. Each student needs to write one new or revised article to the Constitution. The Youth Assembly will identify similar articles, revise them in groups and send to the White House a compilation of the best proposals.



Social Studies | US Government

Independent Study

HOW IS A NATION ARGUED INTO BEING?

Current trends in education focus on student-centered learning and ways to customize education according to each student's interests, pace, and needs. With this in mind, think of a course you'd like to take or a subject you'd like to study that's not currently offered by your school and write an argument that outlines why you have the right to take this course.

Policy Letter

HOW DO YOU PROPOSE LEGISLATION?

You are a concerned citizen who is trying to schedule an in-person meeting with a legislator to persuade them to introduce a specific bill. In order to request a meeting, you must first introduce your issue and explain the purpose for the meeting. Select an issue and write a well-crafted letter that persuades your legislator to take interest in your issue, and convinces them to receive you in their office for a face-to-face follow-up meeting.

Unity Poster

HOW DO YOU UNITE AN AUDIENCE AROUND A MESSAGE?

Because of your expertise in rhetorical appeals, you have been hired as a consultant for a youth group participating in the upcoming Breaking the Sound Barrier rally. Your project is to submit a poster design that will illuminate and unite an audience around a cause important to young people today. The group will carry your poster during the rally, so it is crucial you apply each of the three rhetorical appeals in a creative way to capture the audience's attention and get your message across. Your submission will include an original poster and a statement explaining your use of rhetorical appeals to unite an audience.

Court Ruling

WHAT IS THE PURPOSE OF THE JUDICIAL BRANCH?

A local television station is paying tribute to landmark court decisions and is looking for historians to submit short documentaries about specific influential cases. Following the Action Project Rubric, select a ruling you feel is significant and create a short presentation about the case and its significance today.



Social Studies | Economics

College ROI

HOW DO YOU DETERMINE THE VALUE OF YOUR COLLEGE EDUCATION?

You are deciding whether to go to college, enroll in community college, or secure an apprenticeship, service position, or job. You have heard that college has never been more expensive to attend. However, there are significant arguments that the investment is worth your while despite the costs. Recent US Census Bureau data suggests that college graduates earn 74% more than people with only a high school diploma. Obviously, this decision has both short- and long-term effects that you must consider. Your friends, family, and teachers are excited to hear about what you decide to do and why. To present your findings, you will create a multimedia presentation evaluating your College ROI, or return on investment.

Investment Portfolio

HOW DO YOU GENERATE WEALTH IN YOUR LIFE?

You are 18 years old and have a nest egg of \$5,000 with which to begin investing. Your challenge is to create an investment portfolio reflective of your unique investor profile. You will describe yourself in an investor profile which will indicate your investment objectives, risk tolerance, time horizon, values, and ethics. Your project will take the form of a two to four page investor profile document.

Currency

WHY DOES CURRENCY HAVE VALUE?

If you did not know it before this project, you do now: You can create your own currency! The cryptocurrency craze has democratized the creation of currency. Of course, there are principles to abide by and systems that must function without error. Your opportunity is to create a new currency that you would like to share with the world. You can stick with the many traditional examples of government-backed currency or you can propose a digital or commodity currency; you could even create a totally unique type of currency for concepts such as joy, love, or compassion. Your project should take the form of a blog post or newsletter created to inform the public about a new currency that is about to hit the marketplace.

Tax Plan

HOW DO TAXES REPRESENT THE RELATIONSHIP BETWEEN CITIZENS AND GOVERNMENT?

You have just been elected to represent your district in the US House of Representatives. Your constituents have strong feelings about taxes, and you hope to contribute to the creation of a tax plan that benefits the communities you represent. You will post this plan publicly for 30 days so that your constituents have time to respond with questions and comments.



Math | Algebra 1

Water Awareness

WHAT IF YOU TURNED ON YOUR TAP AND NOTHING CAME OUT?

The global environmental organization GreenPeas is planning an awareness campaign about water usage. Before they launch their campaign, GreenPeas is organizing a poster design contest to generate designs that effectively raise awareness about the amount of water used in homes each day and how this compares to global water usage. The winning poster will be reproduced on a large scale and hung in public places such as on public transit, near public water sources, and in public restrooms. Please see the rubric to understand the content requirements that GreenPeas is using to select the winning poster design.

Graphing Resources

HOW MUCH ENERGY IS REQUIRED TO FUEL SOCIETY?

You have been asked by a member of your Community Improvement Board to conduct a case study on two regions and their energy usage over time. The board is interested in investing in a long-term renewable energy solution, but would like to see the data from other countries and regions. You will conduct research comparing one nonrenewable and one renewable resource and identify the amount that it is being used by two regions over time. This will allow you to determine whether investing in this energy source is a responsible decision.

Art in Numbers

HOW DO WE INTERPRET OUR CULTURE THROUGH NUMBERS?

A local art gallery is accepting submissions for a juried show entitled “Art in Numbers.” The goal is to use art to bring attention to numbers that are overlooked by society. Artists are asked to submit works that are visually engaging that also encourage viewers to reflect on the numbers represented in each work of art. The gallery is looking for creative works that interpret the theme in unusual ways. Submissions must include visual artwork along with an explanation of the image and what it depicts.

Epidemic Graph

HOW DO YOU QUANTIFY THE SPREAD OF AN EPIDEMIC?

The new education department at the Centers for Disease Control and Prevention has been tasked with increasing public awareness of specific infectious diseases. As part of this initiative, they have created a contest that calls for high school students to create educational materials for their peers. Your submission should be not only educational, but also visually engaging. You should include the history, risk factors, and disease spread information for an epidemic of your choice. Your final project will be presented in a visual form such as a brochure, poster, or infographic.



Math | Algebra 2

Wellness Plan

HOW CAN MATH HELP YOU UNDERSTAND THE INTRICACIES OF HEALTH?

According to the CDC and the US Department of Agriculture (USDA), 92% of the US population has a vitamin deficiency. In response to this statistic, the USDA is starting an educational campaign to educate teens about healthy lifestyles. In order to apply to be a teen ambassador for this program, you will analyze your eating habits and see how your eating compares to national RDIs. Based on your analysis, you will create a personalized wellness plan that focuses on improving one meal of the day, and increasing one type of physical activity in your day. Your analysis should serve as a case study to inform yourself and your peers of healthy lifestyles. Your final project should take the form of a report.

Acceleration Study

HOW DOES MATHEMATICS GUIDE OUR UNDERSTANDING OF MOVEMENT?

Each year, your local county fair holds an egg-launching contest as part of their summer games. The goal is to create a device that will launch an egg the farthest distance. This year, you have been asked to judge the contest and provide live commentary of the day's events. In addition, you have submitted your own design for consideration and are excited to analyze the results of your own launches. To complete this project, you will be completing a podcast or video with the day's commentary, as well as a full analysis of your own launch.

Population Comparison

HOW CAN YOU USE MATHEMATICS TO CATEGORIZE AND IDENTIFY POPULATIONS?

The US Department of Agriculture (USDA) is getting serious about managing invasive species, and is calling on citizen scientists to help them track numbers of specific organisms that are throwing ecosystems off balance. You work for a local nature center, and are in charge of creating an educational field guide that will help visitors identify and report species proliferating in your area. To create the field guide, you must select a species, research its population, and compare its numbers to a native species. To learn more, see the Action Project Rubric.

Game Play

HOW DOES PLAY ENRICH OUR LIVES?

You are a game tester, and you've been tasked with creating an exciting new twist on a classic game for a new generation of players. You have selected your first game and gone through multiple rounds of playtesting it to make improvements. For your final project, you will create your own game using information you gained from looking at classic games. This portfolio will show off the successful elements of the game and recommend strategies players can use to be successful. Your project should take the form of a product pitch slide show and include a demonstration of the mathematical probabilities involved in your game.



Learning Across a Lifetime™

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