Student Name & Date

Innoventions for the New Millennium Project

Grade 10

Project Description:

Students will engage in a multicultural and interdisciplinary project that will examine the motivations behind global change and how advances in technology and innovative ideas have influenced the current state of the world. The *Innoventions for the New Millennium Project* requires students to identify current global issues and seek solutions for the future through product innoventions.

Please review this document with your group and your parents/guardians. Familiarize yourself with all the requirements for the project components and their due dates. Parent involvement is especially important in helping students with time management, group meetings, and feedback.

Please complete and return the PARENT SIGN-OFF FORM by Friday, February 3, 2012.

Good Luck and have fun!

Parent Sign-Off Form

Innoventions for the New Millennium Project

I have reviewed the requirements and due dates of the Innoventions for the New Millennium Project with my student. We both understand the requirements necessary for the attainment of a Proficient or higher assessment rating on this project.

Parent/Guardian Name & Date

Parent/Guardian Signature

Student Signature

Innoventions for the New Millennium Project Grade 10

Project Justification:

This project endeavors to create student awareness of the global impact of inventions on society. Students examine past, present, and possible future effects of inventions on cultures, economics, politics, and global survival. This project explores the potential contributions to our global community through ethical considerations and economic and cultural impacts.

The purpose of the *Innoventions for the New Millennium Project* is to engage students in thinking about the future of our environment through the academic disciplines of mathematics, social studies, science, language arts, foreign language, fine arts, physical education, business and technology. In order to accomplish this endeavor, the project has incorporated the California Frameworks, California State Standards, California Department of Education Challenge Standards, and the I-Poly Standards from each discipline.

Essential Questions: (minimum 350 word answers)

- 1) What is the most effective way you can improve your specific issue making the world a better place?
- 2) Just because you can, should you? What is your biggest consideration when faced with a choice between ethics and technological advancement?
- 3) What is the most important factor that must be considered when creating your innovention?
- 4) What is one prediction you can make about your innoventions impact on the future?

General Learning Outcomes:

- 1) Students will make thematic connections between interdisciplinary areas through a variety of integrated learning activities.
- 2) Students will gain knowledge and appreciation of global cultures through the study and exploration of unresolved problems of the modern world.
- 3) Students will take risks necessary for developing "entrepreneurial spirit".
- 4) Students will design innoventions for the new millennium.
- 5) Students will consider ethical and environmental concerns as they develop their contributions to the global community.
- 6) Students will evaluate global interdependence.
- 7) Students will analyze how the individual's role in society has changed over the last two centuries.
- 8) Students will evaluate how economic concepts apply to modern world problems.
- 9) Students will apply and refine leadership skills.
- 10) Students will critically examine their own values regarding altruism and possible conflicts with contemporary world values.
- 11) Students will apply and refine their technological skills.
- 12) Students will creatively develop potential solutions to global problems.

Time Line and Due Dates:

Return Parent Authorization Form

Global Issues Tradeshow

Innovention Approval

Innovention Model & Patent Research

Innovention Presentation

Innovention Model & Patent Report

Frankenstein Proposal Frankenstein Screenplay

Marketing Plan Research Presentation

Marketing Plan

Frankenstein Film Dailies

Frankenstein Film Rough Cut

Frankenstein Film

Binder

Innovention Tradeshow

Friday, February 3, 2012

Thursday, February 9, 2012

Thursday-Friday, February 13-14, 2012

Monday-Tuesday, February 16-17, 2012

February 21-22, 2012

Friday, March 12, 2012

Friday, March 8-9, 2012

Friday, March 22-23, 2012

Thursday-Friday, March 29-30, 2012

Friday, April 20, 2012

Friday, April 27, 2012

Friday, May 11, 2012

Friday, May 25, 2012

Friday, May 25, 2012

Wednesday, May 30, 2012

Project Components:

- 1) Global Issue Tradeshow: Students identify a global issue and present their findings in a trade show. Students first research their global issue, identify why it is an issue, and present it in a booth style/tradeshow presentation. Research based explanations/descriptions are a key feature of this component. Assessment is conducted primarily by the History teacher with input from the 10th grade teacher team.
- 2) <u>Innovention Model & Patent Report</u>: Student groups research a current invention that helps remedy their global issue. Based on their research, they write a Patent Report and build a physical model of their innovention. Assessment is conducted by the Science teacher.
- 3) <u>Frankenstein Screenplay:</u> Students use their reading of Frankenstein to collaboratively write a screenplay that either recreates or elaborates on a scene from Mary Shelley's Frankenstein or creates a scene that was in the book but not shown in the movie. Elements include idea and storyboard pitches, as well as a screenplay. Assessment, using the component contract, is conducted by the English teacher.
- 4) Marketing Plan: Student groups provide a marketing plan for their innovention which includes target population and cost projections. Assessment, using the component contract, is conducted by the Math teacher.
- 5) <u>Frankenstein Film</u>: Student groups film (videotape) their Frankenstein Screenplay. Preparation for the formal production will include camera use, film editing, and costumes. Assessment is conducted by all teachers. Teachers meet as a team to determine total assessment.
- 6) Innoventions Tradeshow: Student groups display and market their innoventions in the culminating tradeshow exhibit. (The exhibit will incorporate all aspects of the project.) Assessment is conducted individually by all teachers involved in any project component. Teachers meet as a team to determine total assessment.



turnitin.com Class IDs and Passwords

All students need to logon at http://www.turnitin.com in order to submit all written work electronically. Turnitin.com stores the papers for future reference, revisions, and also checks them for plagiarism. To login, students need a valid and current email address.

Materials Lists:

The following is a list of necessary items to complete this project:

General - Group <u>Dramatic History Script Writing/Presentation</u>

3" Binder with Tabs Costumes, music, sound effects, etc

USB flash memory device Mini DV tape

Innovention Design Proposal

HB drawing pencil

Colored pencils (optional)

Innoventions Tradeshow

Project Display Board

Innoventions Model

Materials to build model

EVALUATION & ASSESSMENT

Projects will be evaluated by the instructors and given a rating of Exemplary (E), Approaching Exemplary (AE), Proficient (P), Approaching Proficient (AP), Credit (CR), or No Credit (NC). The evaluation process will take the following factors into account: degree of completion, adherence to contract requirements, neatness, quality, written responses, creativity/originality, aesthetics, group organization, and effort. Each student is required to document her/his contributions to the group project. Project assessments are a part of each interdisciplinary subject and will be assessed as follows:

Project Assessment (all cor	nponents - group)	Individual Class Work
LANGUAGE ARTS	50%	50%
SOCIAL SCIENCE	50%	50%
SCIENCE	50%	50%
MATHEMATICS	50%	50%

An "NC" in any project component or classroom assessment will result in an NC for the Semester.

Binder Duo: Friday, May 28, 2012							Assesm	ent	
	Due: Friday, May 28, 2012								
1	House: Members:	N	E	S	W	Issue/Innovention:			
		M	lust co	mple	te all sp	ecifications listed below on time to qualify for Proficie	ency		
						Description:			
		nder cor oventior		-	drafts, r	evisions, and final components to document the			
			Prepa	ration	Section	1: Must be complete for assessment	Self	Teach	Rev
	Grou					ed into sections for each component.			
	Throughout the semester, revisions and returned project work needs to be placed								
	in t	he binde	er.						
						Content:			
						Cover Page:			
		ides pro nes.	ject, g	lobal	issue, i	nnovention name, company, and team member			
						Components:			
	Glob	al Issue	Trade	eshov	w- Pres	entation pictures & research.			
	Inno	vention	Mode	I and	Patent	Report -report, research, and photograph of model.			
	Fran	kensteir	n Scre	enpla	ay/Film-	photographs of cast in costume and sets,			
				yboa	rds, call	sheet, production requirements and			
		sibilities				_			
						h, and photograph of billboard.			
			•		•	members and booth. Also include any handouts			
	use	ed at the	trade	show					
	F0.	41 "\N/L-	atio a			sential Questions:			
	the	future?	,	•		you can make about your innoventions impact on			
						o your house teacher's turnitin.com			
						ns must be arranged in the binder, and organized			
	alp	habetica	ally in	seque	ence by	group member.			

Technical:

Dividers with tabs identifying each section by component and individual

All assessment contracts, drafts, and research.

Global Issue Tradeshow

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				Due	: Thurso	day, February 9, 2012			
	Iouse: mbers:	N	E	S	W	Issue/Innovention:			
			nplete	e all s _l	pecificat	ions listed below on time to qualify for Proficiency	Colf	Topob	
De	escriptio		-	1	1 1		Self	Teach I	ĸev
	eparation S	Section of highl	: Mus	st be o	complete	esented in a tradeshow format. e for assessment search per group member detailing your global issue. e Database system			
						Global Issue.			
Gle	Why is Groups Biod	your glo will na	obal is rrow o Pov	ssue a down t verty	n issue? I their topi	ed in detail based on research Explained in detail c to a specific issue from the following list: on Climate Change Health Security			
you	can imp binder,	udent su prove yo	our sp	ecific	issue ma	turnitin.com EQ #1 "What is the most effective way king the world a better place?" (Paper version put in			
Te	chnical:								
	Researc Photos t	play booing whath availate taken of	ard (3 at it is able a f boot	66" x and w t bootl h, boa	why it is and in binderd, and g	ri-fold when measured flat) dedicated to the issue an issue. er by student name group to be placed in binder mative, accurate, and professional			

Frankenstein Screenplay Final Draft Due: Friday, March 26, 2012

Assesment

	House: N E S W Issue/Innovention:							
1	Members:							
								
	Must complete all specifications listed below to qualify for Proficiency		r					
	Description:							
	Script and Storyboard that recreates, adapts, or elaborates on a scene from the book							
	Frankentsein Propagation Sections Must be complete for assessment	Self	Teach	Rev				
	Preparation Section: Must be complete for assessment 2 copies of a one-page treatment by each group member outlining an idea for the group's	1	reacii	Itev				
	film due March 18-19							
	A Group Pitch approved by the "studio producers" March 22-23							
	Content:							
	Script must:							
	Be able to stand alone with a clear purpose concerning the overall plot.							
	Reveal more and deepen the audience's understanding of the characters'							
	personalities and relationships.							
	Remain true to the underlying drama and spirit of the original novel.							
	Independent Paper							
	Each student submits to Mr. Hogan's turnitin.com EQ #2 "What is the most							
	important							
	factor that must be considered when creating your innovention?" (Paper version							
	put in hinder, not submitted to teacher)							
	in binder, not submitted to teacher) Technical:							
	Must include the Screenplay Checklist	+						
	Script completed/turned in on time							
	Using appropriate industry format							
	Demonstrating appropriate grammar, spelling, and mechanics							
	Neatly assembled.							

Model and Patent Report Final Draft Due: Friday, March 2, 2012

Assesment

	House: N E S W Issue/Innovention:			
1	Members:			
	Must complete all specifications listed below to qualify for Proficien	cy		
	Description:			
	A patent report, in conjunction with technical drawings, explains			
	scientific principles for innovention. Drawings are also plans for			
	construction of a model	_		
	Preparation Section: Must be complete for assessment			
	Innovention approval - February 13-14, Individual- Minimum of 2 unique/different			
	research articles on innovention highlighted or notated with individual's name and			
	source indicated Monday-Tuesday, February 16-17			
	Innovention Presentation- Group presents parts of invention, sequence of events and the scientific principles in how parts work including technical drawing(s) of			
	Innovention showing labeled internal parts and overall system, with actual			
	dimensions indicated - February 21-22			
	Innovention Design Patent Report	Self	Teach	Rev
	Content:			
	Name and brief description of innovention and it's function			
	Summary of global issue and how innovention addresses it			
	Explain scientific basis of how it works, including the sequence of			
	events and the scientific principles involved in the function of each			
	part			
	Identify benefits, any problems, ethical issues, or deficits of innovention			
	Bibliography			
	Patent Application			
	Technical drawing(s) with all parts labeled and actual dimensions			
	Physical Model Shows how invention works including all internal parts			
	All parts labeled			
	Corresponds to technical drawing			
	Built to scale-maximum dimensions 3' x 2' x 2			
		1	I	I

Innoventions for the New Millennium Project - International Polytechnic High School

	Technical:				
	Minimum 1,750 words and in report folder				
	Organized, grammar and punctuation				
	Bibliography includes research articles with complete citations				
All are to participate equally on both the report and model					
Research turned in by student name-minimum 2 articles per person					
	Hard copy turned in and electronic version turned in to turnitin.com				
	Submit group meeting logs & document individual contributions				
	with drafts and or pictures				
	Independent Paper				
	Each student submits to Mrs. Matthews turnitin.com EQ #3 "What is the most				
	important factor that must be considered when creating your innovention?" (Paper				
	version put in binder, not submitted to teacher)				

Marketing Plan	
Final Draft Due: Friday, April 20, 2	012

Assesment

F	ouse: N E S W Issue/Innovention:					
Mei	nbers:					
	Must complete all specifications listed below on time to qualify for Proficiency	y				
	Description: A marketing plan is developed on the innovention to promote the success of the company.					
		Self	Teach	Rev		
	Presentation of complete materials list for innovention with prices and quantities Thursday-Friday, March 29-30 Individually find minimum of 2 pieces of research and share during presentation					
	Essay Content:					
	Target Market: (minimum 350 words) Explain who will buy your innovention. Include such things as corporate/individual/ family, age, gender, income level, places they live, etc. Why do they need your innovention? Competition: Are there any existing products similar to yours that would compete in the stores? Delivery System: (minimum 700 words)					
	Explain where your innovention will be sold. How will your company make the public aware of your product. Be specific How will you allow people to pay for your innovention, for example do they have to pay in full to get the innovention, or can they have credit? How will your innovention be delivered? Will consumers have to pick it up or will your company ship the innovention to them? Will this be free or not? Cost Analysis: (minimum 700 words)					
	Explain everything you will need to create your innovention. All products you use must be listed. Also, list how much of each porduct you need, prices of each product and the cost involved in putting your innovention together. Will it be produced by people or machines, and what wages would you have to pay for them to produce your innovention. Explain where you would produce your innovention. Do you need a room, a building, or warehouse? Would there be any rent fees associated? Explain where you will keep your innovention until the consumer buys it. Are there any fees involved in the storage? Explain any other miscellaneous fees associated with the materials production, or the creation of you innovention. Explain what your company would charge for your innovention. Take into account all the fees and costs associated with the making of your innovention above.					
	Advertising:					

Innoventions for the New Millennium Project - International Polytechnic High School

Create a billboard for your company to be used in tradeshow.		
Original designs only (hand drawn).		
Must contain <u>at least</u> 5 different geometric shapes with actual areas computed.		
Work attached on a separate sheet to back of billboard with formulas		
shown. Shapes must be easily identified.		
Technical: (Must use Google Docs)		
12 pt. font, double spaced, 1 report per group, minimum 1750 words, with		
bibliography and title page.		
Submitted to Mrs. Thinnes's turnitin.com in addition to hard copy.		

Frankenstein Film							
Final Film Due: Friday, May 25, 20	12						

Assesment

House:	N	E	\mathbf{S}	W	Issue/Innovention:	
Members:						

Must complete all specifications listed below on time to qualify for Proficiency

1 1 V			
Description:			
A film is created and edited based on the earlier screenplay and storyboard.			
Preparation Section: Must be complete for assessment	Self	Teach	Rev
Completed Call Sheets			
Director copy of script (with notes and changes)			
Completed Production Requirements and Responsibilities			
Content:			
Able to stand alone with a clear purpose concerning the overall plot.			
Reveal more and deepen the audience's understanding of the characters'			
personalities and relationships.			
Remain true to the underlying themes and spirit of the original novel.			
Technical:			
Be complete and ready for the film screenings.			
Edited on campus			
Filmed using a firewire Mini-DV video camera or teacher approved camera			
3-5 minutes in length (this includes the opening and credits)			
Reasonably follow the script and storyboard prepared by the group and approved by the "producers".			
Utilize appropriate props and settings.			
Be performed without obvious use of scripts.			
All members must have an active role			
All members remain safe (no fire, hitting, drowning, hanging, gun play, stabbing,			
slashing, police involvement, no sexual content, no profanity, etc you get the			
point, yes?)	$oxed{oxed}$		
All members <u>actively</u> involved			

All members actively involved Appropriate booth

Tradeshow				Assesment				
Due: Thursday, June 3, 2012								
]	House: N E S W Issue/Innovention: _ Members:							
	Must complete all specifications listed below on time to qualify for Proficiency							
	Description:							
	An exhibition in which innoventions are explained and marketed.							
	Preparation Section: Must be complete for assessment	Self	Teach	Rev				
	Booth design							
	Marketing technique							
	Content:							
	The following items need to be displayed and available at the book Project Binder (all project components included) Global Issue Boards Innovention Model Technical Drawing Patent Report Marketing Plan	oth:						
	Technical:							
	Salesmanship: every member must be able to provide necessary ir Public Speaking skills (volume, clarity, and delivery) Appropriate behavior and attire Evidence of rehearsal	nformation						