			PRO.	JECT O	VEI	R V <i>I</i>	EW			
Name of Project:		Survivo	or!					Duration: 3 weeks	i	
Subject/Course: Science,		e, Socia	ll Studies, Math	Teacher(s):Bachelder, Fritz, Cory, Chandonnet			Grade Level:7			
Other subject areas to be included, if any:		ELA, te	chnology							
Project Idea Summary of the issue, challenge, investigation, scenario, or problem:		A pandemic of a deadly virus has occurred, forcing people from their homes and the entire Western Hemisphere. They are required to relocate to the Eastern Hemisphere and begin a new civilization. Students will determine the best location based on the climate patterns, biomes and their abilities to adapt and/or modify their environment.								
Driving Question		How can we determine what is needed for a civilization to survive?								
Content and Skills Standards to be addressed:		Social	e- E.ES.07.71, E.ST.07 Studies-7-W1.1.1, 7-W A.PA.07.04, A.RP.07.10	/1.1.2, W1.2.1	, W2.1					
					T+A	Е			T+A	Е
21 st Century Skills to be explicitly taught and assessed (T+A) or that will be encouraged (E) by project work, but not taught or assessed:		Collabo	ration			X	Other:			
		Present	tation		X					
		Critical	Thinking:			X				
				'				Presentation	n Audie	nce:
Culminating	Grou	p:	Written responses Developed assessment /surv	yay cansidaring ye	righlas			Class	3:	Х
Products and Performances			Oral argument Persuasive multimedia "salo					School	School:	
			Tersuasive manimedia sun	s piten presentation				Commu	Community:	
Individual:		vidual: Journaling Individual Climagraphs utilizing data, scale, plotting and analytical skills. Blog/Forum					•	Experts:		
							S. Web	Web:		
							Other:			

			PROJECT OVER	VIE	E W		
Entry event to launch inquiry, engage students:	There has been a catastrophic event in the Western Hemisphere and you must find a new location to live in the Eastern Hemisphere. What factors must you take into account about your new location?						
Assessments	Formative	Quizzes/Tests		X	Practice Presentations	X	
	Assessments	Journal/Learning Log		X	Notes	X	
	(During Project)	Preliminary Plans/Outlines/Prototypes			Checklists		
		Rough Drafts			Concept Maps	X	
		Online Tests/Exams			Other:		
	Summative Assessments (End of Project)	Written Product(s), with rubric:		X	Other Product(s) or Performance(s), with rubric: Multimedia/ oral presentation		
		Oral Presentation, with rubric		X	Peer Evaluation		
		Multiple Choice/Short Answer Test		X	Self-Evaluation		
		Essay Test			Other:		
Resources	On-site people,	facilities:	Instructor, Librarian, Tech-	suppo	ort, lab		
Needed	Equipment:		Portable lab, doc camera, digital cameras,				
	Materials:		Text, online resources, Moodle, construction, video clip				
	Community resources:		MSU extension office, WZZM meteorologist, college faculty		neteorologist, college faculty		
Reflection Methods	(Individual,	Journal/Learning Log		X	Focus Group		
moulous	Group, and/or Whole Class)	Whole-Class Discussion		X	Fishbowl Discussion		
	,	Survey		X	Other: Give one, get one, other discussion strat	X	

PROJECT TEACHING AND LEARNING GUIDE						
Project: Survivor!	Course/Semester: 1 st semester					
Knowledge and Skills Needed by Students to successfully complete culminating products and performances, and do well on summative assessments	Scaffolding / Materials / Lessons to be Provided by the project teacher, other teachers, experts, mentors, community members					
Students can demonstrate the relational differences between weather and climate.	Venn diagram →					
Student will classify areas of the earth according to their climates and biomes.	Google Earth- picture predictions and realizations					
Students analyze long term effects of climate on human patterns and economic decisions and construct possible future patterns relating to climate change.	HOME, research migratory & climate patterns utilizing GIS images, concept map future pattern predictions to be used as support in final project.					
Students will distinguish adequate locations for civilizations while examining the relationship between human choice and climate (adaptation and modification of our environment).	Human/species needs evaluations to be used as support in final project Journals on adaptation and modification of the environment					
Students will examine historic examples of the rise and fall of civilizations, evaluating the reasons for their success and failure relating to climate & biome.	Student graphic organizer jig-sawed from reading selections. Brief oral presentation in cooperation with the jig-saw.					
Students will justify their relocation selection and appropriately react to critics of their plan.	Outline of location selection, arguments and evidence for their selection and responses to potential critics.					
Students will acquire, construct and analyze data to address issues within their investigations of civilizations and climate.	Math notes & practice on representing, plotting and scaling data. Science and Social Studies reinforcement.					

PROJECT CALENDAR									
Project: Survivor		Start D	ate:						
MONDAY	TUESDAY	W E D N E S D A Y	T H U R S D A Y	FRIDA Y					
	PROJECT WEEK ONE								
Entry Event: Viral outbreak Sci: discuss viral outbreaks, video clip SS: RAFT: speech to community-present in class Team Assignments and Expectations, contracts	-Science: Lesson/notes: Climate v. Weather Venn -SS: Explain project details, rubrics, & timeline And begin climate region jigsaw internet research http://www.youtube.com/watch?v=95TtXYjOEv4&featu re=related http://www.youtube.com/watch?v=wUiwtVSkUwQ&feat ure=related http://www.youtube.com/watch?v=E7DLLxrrBV8&featu re=related -Math: Lesson: graphing setup & plotting data	-Science: Reinforcement of Climate v. Weather Checkpoint: short answer summative assessment. Lesson: Atmospheric and oceanic affects on weather- YouTube -SS: Climate regions Teams: jigaw presentations -Math: Set up climagraphs and research data	SS: Checkpoint: Climate location & description reinforcement activity Group processing -research 3 locations and present initial rationales in a table. Groups: Student Developed Human Needs Checklist and groups analyze locations against checklist Science: Lab on atmospheric & oceaninc affects of weather.	SS: TEAMS: Prepare counter arguments for alternative locations in relationshi p to Human Needs Assessmen ts, predict population distributio n Math: Work on plotting data of two climate regions. Science: Checkpoint : quiz					

	PROJECT WEEK TWO			
SS: Population and Migratory patterns findings- GIS, Google Earth screen shots, other images for evidence to support argument TEAMS: Concept map current and future pattern predictions Science: Discuss the role of climate/biomes in the satisfaction of needs- watch: Biomes- Extreme Climates : Biome Yarn Lesson and blog entry. http://www.usc.edu/org/cosee-west/glaciers/Biomes Climate wSt nds.pdf	SS: TEAMS: Group processing- tweak location choices based on new knowledge of human patterns and biomes Science: Continue Biomes activity Math: finish climagraphs	SS: TEAMS: Checkpoint: Prepare outline of Sales Pitch, argument points, counter arguments and organizing evidence. Climate review Science: Use Math climagraphs to make prediction on proximity to water, latitude of location, biome and resources.	SS: Summative assessment on climate basics, descriptions and locations Group Processing- prepare roles and organize presentations	SS: Wrap up project presentati on and practice. Science: Summativ e assessment of E.ES. M.7 GLCEs
	PROJECT WEEK THREE			
SS: TEAM meetings with teacher, and practice	Presentations and evaluation	Presentations and evaluations	HOME Patchwork Journal	HOME Self and Peer assess Project Debrief and collaborati on

Lesson Design: Careful construction of lessons to remove barriers and provide assess for all students.	Checkpoints: Includes
Many of the main ideas of lessons will be constructed with knowledge that comes from multiple forms of media- text, visual, audio, and video and is organized in flexible and differentiated ways.	✓ Multiple ways to represent information✓ Alternatives to text
Final project will be flexible in forms of presentation, with two or three options provided, but the freedom to also suggest alternatives.	✓ Support provided for text comprehension✓ Flexible technology-
Student-centered lessons will challenge students to analyze a situation, come to a conclusion and formulate a presentation of those results in a method that works best for them (see above).	based materials, strategies and tools ✓ Multiple ways for students show what they know
Students will have access to technology to support their needs in conspicuous ways, utilizing ipod touch and ipad apps, the internet and various 2.0 applications to gather, organize and present information.	 ✓ Conspicuous supports for learning new strategies ✓ Mechanism for rapid feedback to learners
	 ✓ Active student-centered methods ✓ Choice, Challenge, Novelty ✓ Connected, relevant learning

Evaluation: 4 Highest and 1 Lowest

Persuasive Writing on Element from Periodic Table that should be used as export to help reduce our National Deficient

Criteria	4	3	2	1
The Claim (Thesis)	Make a claim and explain why your element would be the best one to export and how it would help reduce our National Deficit	Makes a claim but doesn't explain	Claim is buried, confused and/or unclear	Doesn't say what argument or claim is
Reasons in support of the claim (Research-/ Rough Draft)	Give clear and accurate reasons to support your claim. (4-6)	Not enough reasons in support of claim, may have overlooked important reasons	Gave 1 or 2 weak reasons that don't support claim and/or irrelevant or confusing reasons	Did not give convincing reasons in suppor of claim
Introduction	Introduce your element and explain its uses in the economy. (Driving question should be addressed)	Did not discuss element in detail and/or how it would help reduce deficit	Was not clear on how element would be used by other countries, or how we would export it	Did not acknowledge or discuss element, exporting, economy or uses for element
Organization	Writing has a compelling opening (Introduction), three to five informative middle paragraphs and a strong persuasive conclusion.	Writing has a beginning, middle and end. It marches along but doesn't dance.	Writing is organized but sometimes gets off topic.	Writing is aimless and disorganized.
Voice and Tone	It sounds like you care about your argument(s). It shows you know about the element and how it can be used, and how that will add to United States profits.	Tone is okay, but paper could have been written by anyone. Need to tell more about why you believe your element will contribute to the reduction of U.S. debt. Show why you care.	Writing is bland or pretentious. There is either no hint of a real person in it or it sounds like you are a fake.	Writing is too formal or too informal. It sounds like you don't like the topic of the essay.
Word Choice	The words you use are from research and related to the topic. The words should also be striking but natural, varied and vivid. (Do not copy)	Made routine word choices. Did not use correct scientific vocabulary when it should have been used.	The words used are often dull or uninspired or sounds like you are trying too hard to impress.	Uses the same words over and over and over and over. Some words may be confusing to a reader.
Sentence Fluency	Sentences are clear, complete, and of varying lengths.	Well-constructed sentences with little variation	Sentences are sometimes awkward, and/or contain run-ons and fragments.	Many run-ons, fragments and awkward phrasings make essay hard to read.
Conventions	Use correct grammar, spelling, and punctuation.	Generally uses correct conventions. Have a couple of errors that should be fixed.	Enough errors in essay to distract reader	Numerous errors make paper hard to read