

# MVAS Em-Power Solar Project 2008-2009

Driving Question: How can the US generate 100% of its energy needs in 10 years?

How can media persuade people to be more conscious of their energy use?

Why is solar power a viable energy option?

What practices are available to conserve energy?

What architectural design elements reduce the use of energy and maximize efficiency?

		semester 1					semester 2				
		Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June
<b>Project scope and milestones</b>		Introduce project	Understanding the need for renewable energy. <b>Solar Week-</b> Dosomething.org LAUNCH COMPETITION (Oct 13)	Conservation and solar energy	Community connections, presenting. DO SOMETHING COMPETITION CLOSES (Dec 8); JANUARY WINNERS ARE ANNOUNCED (Jan 15).		Contacting media	SDG&E install	Measure results		Present for Community (Design Review)
<i>Discipline</i>	<i>Teacher</i>	<i>Lessons and Skills</i>									
<b>Math 9th</b>	<b>Raymond</b>		Survey of faculty for energy use. Fac. Maint	Calculating Data (Energy Audit) SDG&E	Energy Estimates	Proposal	Proposal			Find how our project has improved community	Find how our project has improved community
	<b>Standards</b>										
<b>English 9th</b>	<b>Bell</b>	Interview Skills		Technical report reading paraphrasing	Naturalist Writings	Persuasive writing	Research Paper	Research paper/ Presenting. Solar Presentation to district facilities maint.			
	<b>Standards</b>										
<b>Comp/ Apps</b>	<b>Minor</b>		Research & uses..PowerPoint on energy sources and uses	Articles & Letters written about conserving energy on campus	PowerPoint's on Energy Conservation and Architectural Design recommended	Present recommendations (Principles, fac. Maint., Range)					
	<b>Standards</b>										
<b>Art 9th</b>	<b>Black</b>		"Green" Campaign Logo Contest	Architectural Design-(Positive and active solar) Led, Conservation & efficiency)	Create your architectural Home use Leed design your town	Presentations on sustainable architecture			Architectural Design-(Positive and active solar) Led, Conservation & efficiency)	Architectural Structures	Presentations
	<b>Standards</b>										
<b>Earth Science</b>	<b>Krauthaim</b>			Solar Radiation, Solar panel Investigation (AUSSE & some experts) Global Warming and Greenhouse effect	Soar Radiation (last week in Nov.) Solar panel Investigation, Stuart, Gordon, Slar ed kit stations	Earths Carbon cycle greenhouse effect			Solar Radiation, solar panel investigation		
	<b>Standards</b>										
<b>English 12</b>	<b>Thompson</b>	Expository				Persuasive Essay and letter to editor/businesses					
	<b>Standards</b>										
<b>AP Environmental</b>	<b>Krauthaim</b>			Energy Basics, fossile Fuels, renewable energy, energy audit.	Proposal/Audit for a company			Students provide energy audits for businesses			
	<b>Standards</b>										
<b>Video</b>	<b>Effren V</b>	Marketing, and propaganda; Understanding influence of media; Project life cycle and work flow	Student Green Campaign; Elements of professional video composition; Project life cycle and work flow [10/13 Solar Energy Week	Digital Audio production;		Standard Media Formats;	Marketing, and propaganda; Understanding influence of media; Project life cycle and work flow	Student Green Campaign; Elements of professional video composition; Project life cycle and work flow	Digital audio production;		Standard Media Formats;

<b>Competencies</b>	Occupational 1:A-E, 21:A-G, Expected 1:A-F, 2 A-K	Occupational 2:A, 3:A-D, 10:A-F,	Occupational 8:A-B, 13:A-C, 13:A-D		Occupational 15:A-E	Occupational 1:A-E, 21:A-G, Expected 1:A-F, 2 A-K	Occupational 2:A, 3:A-D, 10:A-F,	Occupational 8:A-B, 13:A-C, 13:A-D		Occupational 15:A-E
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