

Org-Type	Non-Profit-based		
Lead	SETI	PoC	Pamela Harman, Manager of Education and Outreach
PoC-Phone	650-961-6633	PoC-Email	pharman@seti.org
Address	515 N. Whisman Road, Mountain View, CA, 94043		
URL	www.voyagesthroughtime.org		
Service-Region	Nationwide		
Type	Lesson Plan		
Subjects	General Science Biology Physics Space		
Level	High School (9-12th grade)		
Other-Objectives	<p>There are 6 modules in Voyages through Time which comprise approximately 180 days of instructional materials: Cosmic Evolution--astronomy Planetary Evolution--planetary science Origin of Life--biology and microbiology Evolution of Life--biology and evolution of life Hominid Evolution--biology and physical anthropology Evolution of Technology--invention, engineering and evolution of technology Further information at: www.voyagesthroughtime.org ASSET: This week-long institute for high school science teachers provides content enrichment, inquiry-based learning experiences, planning for professional development, and planning for implementation of astrobiology into high school courses with Voyages Through Time materials and other NASA materials. Program-Best-Practice: Best Practices: Our curriculum design is based upon the National Science Education Standards, and the 5-E's inquiry-based model for classroom science teaching developed by BSCS in Colorado Springs. Our teacher professional development (ASSET) institute also reflects best practices from NSES, and Designing Professional Development for Teachers of Science and Mathematics (Loucks-Horsley, Love, Stiles, Mundry, & Hewson, 2003). Formative evaluation over 4 years has demonstrated that ASSET is an excellent workshop for high school science teachers. Voyages Through Time has been recognized by: Media and Methods: Portfolio Winner, 2004 Education Software Preview Guide: Notable Software California Learning Resources Network: (CLRN): Ed Tech Funds may be used to purchase the materials. Voyages Through Time is used in more than 400 school nationwide. During development, the materials were extensively tested and evaluated by WestEd, the regional research laboratory for science and mathematics education.</p>		
Served-per-Year	400+ classrooms	Demographics	
Content	<p>Voyages Through Time: A standards-based curriculum for a high school integrated science course centered on the unifying theme of evolution. The curriculum is presented in 6 technology-based modules: Cosmic Evolution, Planetary Evolution, Origin of Life, Evolution of Life, Hominid Evolution, and Evolution of Technology. Together, they comprise a year-long course; individually, the modules can be integrated into discipline based courses such as earth and space science, biology, physics, etc. Each summer, we train 20-25 high school teacher-leaders in ASSET: Astrobiology Summer Science Experience for Teachers at San Francisco State University. Teachers apply, are selected, and funded. They commit to providing professional development for other educators in their home communities. We have approx. 90 mentor teachers in more than 20 states. They present workshops, mentor other teachers, and implement the curriculum at their schools.</p>		
Outcomes	<p>Our goal is to provide excellent curriculum materials that bring cutting edge science to the classroom, support teaching the major concepts in science in an integrated course that includes the historical sweep of science (via timeline activities), computer/data base experiences that engage students with scientific data, and inquiry-based activities. The curriculum is based upon the "5 E's" model: Engage, Explore, Explain, Elaborate, and Evaluate, a proven model of instruction. Teacher materials and student data-base activities, media, and print materials are provided on CD-ROMs. Separately, collected science articles comprise the student readers for each module.</p>		
Started	Funded-Through		
Length	Cost		
Primary-Funding	Primary-\$		
Materials			
Other-Funding			
How-Assessed			
Best-Practice-Why			
Promising-Practice			
Sponsor	Sponsor-Org		
Sponsor-Phone	Sponsor-Email		
Other-Orgs			