



S o l a n o
C o u n t y
M u s e u m
C o n s o r t i u m



Standards Based Education Resources at Solano County Museums

2005-2006

For more information, contact:



Benicia Historical Museum

Sue Fisher, Director
2060 Camel Road
Benicia, CA 94510

ph: 707-745-5435
www.
beniciahistoricalmuseum.org



Rio Vista Museum

Doug Tingey, President
16 N. Front St.
Rio Vista, CA 94571

ph: 707-374-5169



Vacaville Museum

Shawn Lum, Director
213 Buck Ave.
Vacaville, CA 95688

ph: 707-447-4513
www.vacavillemuseum.org



Vallejo Naval and
Historical Museum

Jim Kern, Director
734 Marin Street
Vallejo, CA 94590

ph: 707-643-0077
www.vallejomuseum.org



Western Railway Museum

Phil Kohlmetz, Director
5848 State Highway 12
Suisun City, CA 94585

ph: 707-374-2978 x114
www.wrm.org

**Standards Based Education
Resources at Solano County Museums
2005-2006**

Dear Teachers,

The museums of Solano County are strongly committed to education. Thousands of local students visit our county's museums each year, either with their families or as part of an organized class field trip. Museums place education at the very center of their public service role and we appreciate the efforts of teachers who take the learning experience beyond the classroom walls to enrich their students' experiences.

This matrix was developed by the Solano County Museum Consortium (SCMC) in collaboration with the Solano County Office of Education (SCOE). Its purpose is to provide an "at-a-glance" tool that will allow you to address state curriculum standards when you take your class on a field trip to one of Solano County's museums. Each museum has developed its field trip programs with State Standards in mind. As additional museum programs are developed in the future, the matrix will be updated to reflect current standards.

The members of the Solano County Museum Consortium wish to offer sincere thanks to Solano County Superintendent of Schools Dee Alarcón for her enthusiasm and commitment to this project.

We look forward to your visit to our museums!

Cover: "Solano" by Guillermo Granizo is used with courtesy of the City of Vacaville Public Art Collection (photography by Dudley Owens).

**Standards Based Education
Resources at Solano County Museums
2005-2006**

Standards	Benicia Historical Museum	Vallejo Naval & Historical Museum	Western Railway Museum	Vacaville Museum	Rio Vista Museum
HISTORY/SOCIAL SCIENCE					
Kindergarten – Learning and Working New and Long Ago					
<ul style="list-style-type: none"> • K.1 Students understand that being a good citizen involves acting in certain ways. 	X	X	X	X	X
<ul style="list-style-type: none"> • K.2 Students recognize national and state symbols and icons such as the national and state flags, the bald eagle, and the Statue of Liberty 	X				
<ul style="list-style-type: none"> • K.3 Students match simple descriptions of work that people do and the names of related jobs at the school, in the local community, and from historical accounts. 	X		X	X	X
<ul style="list-style-type: none"> • K.4 Students compare and contrast the locations of people, places, and environments and describe their characteristics. 	X				
<ul style="list-style-type: none"> • K.6 Students understand that history relates to events, people, and places of other times. 	X	X	X	X	X
Grade One – A Child’s Place in Time and Space					
<ul style="list-style-type: none"> • 1.2 Students compare and contrast the absolute and relative locations of places and people and describe the physical and/or human characteristics of places. 	X	X			X
<ul style="list-style-type: none"> • 1.4 Students compare and contrast everyday life in different times and places around the world and recognize that some aspects of people, places, and things change over time while others stay the same. 	X	X	X	X	X
<ul style="list-style-type: none"> • 1.5 Students describe the human characteristics of familiar places and the varied backgrounds of American citizens and residents in those places. 	X	X		X	X
<ul style="list-style-type: none"> • 1.6 Students understand basic economic concepts and the roll of individual choice in a free-market economy. 	X		X		

**Standards Based Education
Resources at Solano County Museums
2005-2006**

Standards	Benicia Historical Museum	Vallejo Naval & Historical Museum	Western Railway Museum	Vacaville Museum	Rio Vista Museum
History/Social Science (Continued)					
Grade Two – People Who Make a Difference					
<ul style="list-style-type: none"> • 2.1 Students differentiate between things that happened long ago and things that happened yesterday. 	X	X	X	X	X
<ul style="list-style-type: none"> • 2.2 Students demonstrate map skills by describing the absolute and relative locations of people, places, and environments. 			X	X	X
<ul style="list-style-type: none"> • 2.4 Students understand basic economic concepts and their individual roles in the economy and demonstrate basic economic reasoning skills 	X	X	X	X	X
<ul style="list-style-type: none"> • 2.5 Students understand the importance of individual action and character and explain how heroes from long ago and the recent past have made a difference in others' lives. 				X	
Grade Three – Continuity and Change					
<ul style="list-style-type: none"> • 3.1 Students describe the physical and human geography and use maps, tables, graphs, photographs, and charts to organize information about people, places, and environments in a spatial context. 	X	X			X
<ul style="list-style-type: none"> • 3.2 Students describe the American Indian nations in their local region long ago and in the recent past. 	X	X		X	
<ul style="list-style-type: none"> • 3.3 Students draw from historical and community resources to organize the sequence of local historical events and describe how each period of settlement left its mark on the land. 	X	X	X	X	X
<ul style="list-style-type: none"> • 3.4 Students understand the role of rules and laws in our daily lives and the basic structure of the U.S. government. 	X	X			X
<ul style="list-style-type: none"> • 3.5 Students demonstrate basic economic reasoning skills and an understanding of the economy of the local region. 	X	X	X	X	X

**Standards Based Education
Resources at Solano County Museums
2005-2006**

Standards	Benicia Historical Museum	Vallejo Naval & Historical Museum	Western Railway Museum	Vacaville Museum	Rio Vista Museum
History/Social Science (Continued)					
Grade Four – California: A Changing State					
<ul style="list-style-type: none"> • 4.1 Students demonstrate an understanding of the physical and human geographic features that define places and regions in California. 	X	X			X
<ul style="list-style-type: none"> • 4.2 Students describe the social, political, cultural, and economic life and interactions among people of California from the pre-Columbian societies to the Spanish mission and Mexican rancho periods. 	X	X		X	
<ul style="list-style-type: none"> • 4.3 Students explain the economic, social, and political life in California from the establishment of the Bear Flag Republic through the Mexican-American War, the Gold Rush, and the granting of statehood. 	X	X		X	X
<ul style="list-style-type: none"> • 4.4 Students explain how California became an agricultural and industrial power, tracing the transformation of the California economy and its political and cultural development since the 1950s. 	X	X	X	X	X
Grade Five – United States History and Geography: Making a New Nation					
<ul style="list-style-type: none"> • 5.3 Students describe the cooperation and conflict that existed among the American Indians and between the Indian nations and the new settlers. 	X				
<ul style="list-style-type: none"> • 5.8 Students trace the colonization, immigration, and settlement patterns of the American people from 1789 to the mid-1800s, with emphasis on the role of economic incentives, effects of the physical and political geography, and transportation systems. 	X	X		X	

**Standards Based Education
Resources at Solano County Museums
2005-2006**

Standards	Benicia Historical Museum	Vallejo Naval & Historical Museum	Western Railway Museum	Vacaville Museum	Rio Vista Museum
SCIENCE					
PHYSICAL SCIENCES					
Kindergarten					
<ul style="list-style-type: none"> • K.1 Properties of materials can be observed, measured, and predicted. 	X		X		
Grade Two					
<ul style="list-style-type: none"> • 2.1 The motion of objects can be observed and measured. 	X		X		
Grade Three					
<ul style="list-style-type: none"> • 3.1 Energy and matter have multiple forms and can be changed from one form to another. 			X		
Grade Four					
<ul style="list-style-type: none"> • 4.1 Electricity and magnetism are related effects that have many useful applications in everyday life. 			X		
INVESTIGATION AND EXPERIMENTATION					
Kindergarten					
<ul style="list-style-type: none"> • K.4 Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. 			X	X	
Grade One					
<ul style="list-style-type: none"> • 1.4 Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other here strands, students should develop their own questions and perform investigations. 	X				
Grade Three					
<ul style="list-style-type: none"> • 3.5 Scientific progress is made by asking meaningful questions an conducting careful investigations. As a basis for understand this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. 		X			

**Standards Based Education
Resources at Solano County Museums
2005-2006**

Standards	Benicia Historical Museum	Vallejo Naval & Historical Museum	Western Railway Museum	Vacaville Museum	Rio Vista Museum
Science (Continued) Grade Five					
<ul style="list-style-type: none"> • 5.6 Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content. 				X	
EARTH SCIENCE					
Grade Three					
<ul style="list-style-type: none"> • 3.4 Objects in the sky move in regular and predictable patterns. 		X			

**Standards Based Education
Resources at Solano County Museums
2005-2006**

Standards	Benicia Historical Museum	Vallejo Naval & Historical Museum	Western Railway Museum	Vacaville Museum	Rio Vista Museum
ENGLISH LANGUAGE ARTS					
READING					
1.0 Word Analysis, Fluency, and Systematic Vocabulary Development					
Kindergarten					
<ul style="list-style-type: none"> Students know about letters, words, and sounds. They apply this knowledge to read simple sentences 	X	X			
2.0 Reading Comprehension					
Kindergarten					
<ul style="list-style-type: none"> Students identify the basic facts and ideas in what they have read, heard, or viewed. They use comprehension strategies (e.g., generating and responding to questions, comparing new information to what is already known). 	X	X		X	X
Grade Three					
<ul style="list-style-type: none"> Students read and understand grade-level-appropriate materials. They draw upon a variety of comprehension strategies as needed. 	X			X	
Grade Four					
<ul style="list-style-type: none"> Students read and understand grade-level-appropriate material. They draw upon a variety of comprehension strategies as needed. In addition to their regular school reading, students read one-half million words annually. 	X			X	
Grade Five					
<ul style="list-style-type: none"> Students read and understand grade-level-appropriate material. They describe and connect the essential ideas, arguments, and perspectives of the text by using their knowledge of text structure, organization, and purpose. 	X	X	X	X	X

**Standards Based Education
Resources at Solano County Museums
2005-2006**

Standards	Benicia Historical Museum	Vallejo Naval & Historical Museum	Western Railway Museum	Vacaville Museum	Rio Vista Museum
English Language Arts (Continued)					
3.0 Literary Response and Analysis					
Kindergarten					
<ul style="list-style-type: none"> Students listen and respond to stories based on well-known characters, themes, plots, and settings. 	X				
WRITING					
1.0 Writing Strategies					
Grade One					
<ul style="list-style-type: none"> Students write clear and coherent sentences and paragraphs that develop a central idea. Their writing shows they consider the audience and purpose. Students progress through the stages of the writing process (e.g., prewriting, drafting, revising, editing successive versions). 				X	
Grade Two					
<ul style="list-style-type: none"> Students write clear and coherent sentences and paragraphs that develop a central idea. Their writing shows they consider the audience and purpose. Students progress through the stages of the writing process. 				X	
LISTENING AND SPEAKING					
1.0 Listening and Speaking Strategies					
Kindergarten					
<ul style="list-style-type: none"> Students listen and respond to oral communication. They speak in clear and coherent sentences. 	X	X	X	X	X
Grade One					
<ul style="list-style-type: none"> Students listen critically and respond appropriately to oral communication. They speak in a manner that guides the listener to understand important ideas by using proper phrasing, pitch, and modulation. 	X	X	X	X	X

**Standards Based Education
Resources at Solano County Museums
2005-2006**

Standards	Benicia Historical Museum	Vallejo Naval & Historical Museum	Western Railway Museum	Vacaville Museum	Rio Vista Museum
English Language Arts (Continued) Grade Two					
<ul style="list-style-type: none"> • Students listen critically and respond appropriately to oral communication. They speak in a manner that guides the listener to understand important ideas by using proper phrasing, pitch, and modulation. • 1.2 – Ask for clarification and explanation of stories and ideas • 1.3 – Paraphrase information that has been shared orally by others • 1.4 – Give and follow three- and four-step oral direction • 1.9 – Report on a topic with supportive facts and details. 	X	X	X	X	X
Grade Three					
<ul style="list-style-type: none"> • Students listen critically and respond appropriately to oral communication. They speak in a manner that guides the listener to understand important ideas by using proper phrasing, pitch, and modulation. • 1.1 – Retell, paraphrase, and explain what has been said by a speaker. 	X	X	X	X	X
Grade Four					
<ul style="list-style-type: none"> • Students listen critically and respond appropriately to oral communication. They speak in a manner that guides the listener to understand important ideas by using proper phrasing, pitch, and modulation. • 1.1 – Ask thoughtful questions and respond to relevant questions with appropriate elaboration in oral settings. 	X	X	X	X	X
Grade Five					
<ul style="list-style-type: none"> • Students deliver focused, coherent presentations that convey ideas clearly and relate to the background and interests of the audience. They evaluate the content of oral communication. 	X	X	X	X	X

**Standards Based Education
Resources at Solano County Museums
2005-2006**

Standards	Benicia Historical Museum	Vallejo Naval & Historical Museum	Western Railway Museum	Vacaville Museum	Rio Vista Museum
2.0 Speaking Applications (Genres & Their Characteristics)					
Kindergarten					
<ul style="list-style-type: none"> • Students deliver brief recitations and oral presentations about familiar experiences or interests, demonstrating command of the organization and delivery strategies outlined in Listening and Speaking Standard 1.0 			X		
Grade One					
<ul style="list-style-type: none"> • Students deliver brief recitations and oral presentations about familiar experiences or interests that are organized around a coherent thesis statement. Student speaking demonstrates a command of standard American English and the organizational and delivery strategies outlined in Listening and Speaking Standard 1.0 <ul style="list-style-type: none"> • 2.1 Recite poems, rhymes, songs, and stories. • 2.2 Retell stories using basic story grammar and relating the sequence of story events by answering who, what, when, where, why, and how questions. • 2.4 Provide descriptions with careful attention to sensory detail. 	X	X	X	X	X
Grade Three					
<ul style="list-style-type: none"> • Students deliver brief recitations and oral presentations about familiar experiences or interests that are organized around a coherent thesis statement. Student speaking demonstrates a command of standard American English and the organizational and delivery strategies outlined in Listening and Speaking Standard 1.0. 	X				

**Standards Based Education
Resources at Solano County Museums
2005-2006**

Standards	Benicia Historical Museum	Vallejo Naval & Historical Museum	Western Railway Museum	Vacaville Museum	Rio Vista Museum
MATHEMATICS					
NUMBER SENSE					
Grade One					
1.0 Students understand and use numbers up to 100			X		
2.0 Students demonstrate the meaning of addition and subtraction and use these operations to solve problems.			X		
Grade Two					
5.0 Students model and solve problems by representing, adding, and subtracting amounts of money.			X		
MEASUREMENT AND GEOMETRY					
Kindergarten					
2.0 Students identify common objects in their environment and describe the geometric features.		X			
Grade Three					
2.0 Students describe and compare the attributes of plane and solid geometric figures and use their understanding to show relationships and solve problems: 2.5 Identify, describe, and classify common three-dimensional geometric objects (e.g., cube, rectangular solid, sphere, prism, pyramid, cone, cylinder).		X			

**Standards Based Education
Resources at Solano County Museums
2005-2006**

Museum Contact Information

Benicia Historical Museum at the Camel Barns

Sue Fisher, Director
2060 Camel Road
Benicia, CA 94510
info@beniciahistoricalmuseum.org
(707) 745-5435

Rio Vista Museum

Doug Tingey, Board President
16 N. Front Street
Rio Vista, CA 94571
(707) 374-5169

Vacaville Museum, A Center for Solano County History

Shawn Lum, Director
213 Buck Avenue
Vacaville, CA 95688
lumdirect@sbcglobal.net
(707) 447-4513

Vallejo Naval and Historical Museum

Jim Kern, Director
734 Marin Street
Vallejo, CA 94590
valmuse@pacbell.net
(707) 643-0077

Western Railway Museum (Bay Area Electric Railroad Association)

Phil Kohlmetz, Executive Director
5848 State Highway 12
Suisun City, CA 94585
philk@wrm.org
(707) 374-2978 x 114

Vacaville Heritage Council

Central Solano History Center and County Archives

Jerry Bowen, Writer and Researcher
P. O. Box 5477
Vacaville, CA 95696-547
jerrybowen@earthlink.net