

Splash Curriculum Alignment with the California State Teaching Standards (Jan 2005)

The Splash curriculum *Life in Our Watershed: Investigating Vernal Pools* meets the objectives for teaching a high quality elementary educational curriculum. Each lesson has been correlated to the California State Teaching Standards for Science, Math, Language Arts and History/Social Studies developed by the California Department of Education. The tables below summarize this correlation to the standards in a lesson-by-lesson format for grade levels 4 and 5. Please refer to www.cde.ca.gov/ for detailed descriptions of the standards cited.

Lesson 1 – The Watershed Connection		
Students review the water cycle and learn how a watershed functions.		
Subject	Grade 4	Grade 5
Science		
Life Science	3.b	
Earth Science	5.c	3.a, 3.b, 3.c, 3.d, 3.e
History/Social Studies		
California: A Changing State	1.3, 1.4, 1.5	
Math		
Number Sense	1.7	
Language Arts		
Reading	1.0,1.2, 1.3, 1.4, 1.5, 1.6, 2.0, 2.1, 2.2, 2.3, 2.4, 2.5	1.0, 1.2, 1.4, 2.0, 2.1, 2.2, 2.3, 2.4, 2.5
Writing	1.0	1.0
Written and Oral English Language Conventions	1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7	1.0, 1.1, 1.2, 1.3, 1.4, 1.5
Listening and Speaking	1.0, 1.1, 1.2, 1.5, 1.6, 1.7, 1.8	1.1, 1.2, 1.3

Lesson 2 – Introduction to Vernal Pools		
Students learn the characteristics of a vernal pool.		
Subject	Grade 4	Grade 5
Science		
Life Science	3.a, 3.b	
Earth Science	5.c	
History/Social Studies		
California: A Changing State	2.1, 3.3, 4.2, 4.4, 4.6, 4.7	
Language Arts		
Reading	1.0,1.2, 1.3, 1.4, 1.5, 1.6, 2.0, 2.1, 2.2, 2.3, 2.4, 2.5	1.0, 1.2, 1.4, 2.0, 2.1, 2.2, 2.3, 2.4
Written and Oral English Language Conventions		1.0, 1.4, 1.5
Listening and Speaking	1.0, 1.1, 1.2	1.1, 1.2, 1.3

Lesson 3 – The Three Phases of the Vernal Pool Ecosystem		
Students learn the three phases of vernal pools and how this ecosystem is adapted to the wet and dry extremes of California’s Mediterranean climate.		
Subject	Grade 4	Grade 5
Science		
Life Science	2.a, 2.b, 2.c, 3.a, 3.b, 3.c	
Investigation and Experimentation		6.a
Language Arts		
Reading	1.0,1.2, 1.3, 1.5, 1.6, 2.0, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6	1.0, 1.2, 1.4, 2.0, 2.1, 2.2, 2.3, 2.4
Writing	1.0, 1.7	1.3
Written and Oral English Language Conventions		1.0
Listening and Speaking	1.0, 1.1, 1.2	1.0, 1.1, 1.3

Lesson 4 – Looking like a Scientist		
Students raise and observe Fairy Shrimp in the classroom; They learn to apply the scientific method and present results using graphs.		
Subject	Grade 4	Grade 5
Science		
Life Science	2.a	
Investigation and Experimentation	6.a, 6.b, 6.c, 6.d, 6.e, 6.f	6.b, 6.c, 6.e, 6.f, 6.g, 6.h, 6.i
Math		
Number Sense	3.1, 3.2, 3.3, 3.4	
Algebra and Function		1.1
Measurement and Geometry	1.1, 2.1	
Statistics, Data Analysis and Probability	1.1, 1.3, 2.1	1.1,1.2
Math Reasoning	1.1, 1.2, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.3	1.1, 1.2, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.3
Language Arts		
Reading	1.0, 1.2, 1.3, 1.4, 2.0, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7	1.0, 1.2, 1.4, 2.0, 2.1, 2.2, 2.3, 2.4
Writing	1.0, 1.1, 1.3, 1.4, 1.5, 1.6, 1.7, 2.3.a, 2.3.b, 2.3.c	2.1, 2.3.a, 2.3.b, 2.3.c
Written and Oral English Language Conventions	1.0 – 1.7	1.0 – 1.5
Listening and Speaking	1.1, 1.2	1.1, 1.2, 1.3

Lesson 5 – Tools for the Pools		
Students learn the concept of size and scale and learn which magnification tools are needed to observe various critters.		
Subject	Grade 4	Grade 5
Science		
Investigation and Experimentation	6.b	6.a, 6.f, 6.g
Math		
Number Sense	1.4, 3.2, 3.3, 3.4	1.2, 2.2
Measurement and Geometry	2.1	1.4
Statistics, Data Analysis, and Probability	1.1	
Math Reasoning	1.1, 2.1, 2.2, 2.3, 2.4, 3.1, 3.2, 3.3	1.1, 1.2, 2.1, 2.2, 2.3, 2.4, 3.1, 3.2, 3.3
Language Arts		
Reading	1.0, 1.2, 1.3, 1.4, 2.0, 2.1, 2.2, 2.3, 2.4	1.0, 1.2, 1.4, 2.0, 2.1, 2.2, 2.3, 2.4
Writing	1.1, 1.3	
Written and Oral English Language Conventions	1.0	
Listening and Speaking		1.1

Lesson 6 – Create Your Own Critter Guide		
Students learn to use organizational features of printed text to find information, discern main ideas, and create pages for a critter guide. Each student conducts research, and uses the information in future lessons.		
Subject	Grade 4	Grade 5
Science		
Life Science	2.b, 2.c, 3.a, 3.c, 3.d	
Investigations and Experimentation		6.a
Language Arts		
Reading	1.0, 1.2, 1.3, 1.4, 2.0, 2.1, 2.2, 2.3, 2.4, 2.5	1.0, 1.2, 1.4, 2.0, 2.1, 2.2, 2.3, 2.4
Writing	1.1, 1.3, 1.4, 1.5, 1.6, 1.7, 2.3	1.2, 1.4, 2.0, 2.1, 2.2, 2.3, 2.4
Written and Oral English Language Conventions	1.0-1.7	1.0-1.5
Listening and Speaking		1.1

Lesson 7 – Critter Commercial		
Students learn about other critters in the food web, as they complete a commercial for their vernal pool critter and take notes on other presentations. This lesson prepares students for the field trip, when they will share critter information with their group and their tour guide.		
Subject	Grade 4	Grade 5
Language Arts		
Writing	1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 2.3.a, 2.3.b, 2.3.c, 2.4	1.0, 1.2, 1.3, 1.6, 2.3.a, 2.3.b, 2.3.c
Written and Oral English Language Conventions	1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7	1.0, 1.1, 1.2, 1.3, 1.4, 1.5
Listening and Speaking	1.1, 1.2, 1.5, 1.6, 1.7, 1.8, 1.9, 2.2.a, 2.2.b, 2.2.c	1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 2.2.a, 2.2.b, 2.2.c

Lesson 8 – What’s for Dinner		
Students explore how a food web works, where their critter fits in the food web and the importance of plants and water quality to aquatic food webs.		
Subject	Grade 4	Grade 5
Science		
Life Science	2.a, 2.b, 2.c, 3.a, 3.b, 3.c, 3.d	2.f, 2.g
Investigations and Experiments		6.a
Language Arts		
Reading	2.0, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6	2.0, 2.1, 2.3, 2.4
Written & Oral Conventions	1.0	1.0
Listening and Speaking	1.0, 1.1, 1.2, 1.8	1.0, 1.1, 1.3, 1.4, 1.5

Lesson 9 – Flower Facts		
Students learn the biology of flowers and how and why pollination occurs.		
Subject	Grade 4	Grade 5
Science		
Life Science	3.a, 3.b, 3.c	
Investigations and Experimentation	6.e	6.a, 6.g
Math		
Number Sense	1.5, 1.6, 3.1, 3.2, 3.4	1.2, 2.1
Measurement and Geometry	3.2	1.4, 2.1, 2.2
Statistics and Data Analysis	1.1	1.2, 1.3
Math Reasoning	1.1, 2.2, 2.3, 2.4, 3.1, 3.2, 3.3	1.1, 1.2, 2.1, 2.2, 2.3, 2.4, 3.1, 3.2, 3.3
Language Arts		
Reading	1.0, 1.2, 1.3, 1.4, 2.0, 2.1, 2.2, 2.4, 2.5	1.0, 1.2, 1.4, 2.0, 2.1, 2.2
Writing	1.5, 1.6	
Written and Oral English Language Conventions	1.0, 1.7	1.0, 1.5
Listening and Speaking	1.0, 1.1, 1.2	1.0

Lesson 10 – Create Your Own Flower Guide.		
Students learn to use organizational features of printed text to find information, discern main ideas, and create one page for a flower guide.		
Subject	Grade 4	Grade 5
Science		
Life Science	3.a, 3.b, 3.c, 3.d	
Language Arts		
Reading	1.0, 1.2, 1.3, 1.4, 2.0, 2.1, 2.2, 2.3, 2.4	1.0, 1.2, 1.4, 2.0, 2.1, 2.2, 2.3, 2.4
Writing	1.0, 1.3, 1.5, 1.6, 2.0, 2.3.a, 2.3.b, 2.3.c	1.0, 1.2.a, 1.2.b, 1.6
Written and Oral Conventions	1.0	1.0
Listening and Speaking	1.0, 2.2.a, 2.2.b, 2.2.c	1.0, 1.1, 1.2, 1.3, 2.0, 2.2.a, 2.2.b, 2.2.c

Lesson 11 – Create an Origami Book		
Students create a unique book to share their knowledge of vernal pools.		
Subject	Grade 4	Grade 5
Math		
Measurement and Geometry	1.1, 1.4, 3.0	1.1, 2.0
Math Reasoning	1.1, 1.2	1.1, 1.2
Language Arts		
Reading	1.0, 2.0, 2.1, 2.2, 2.3, 2.7	1.0, 2.0, 2.1, 2.2
Writing	1.0, 1.4, 2.3.a, 2.3.b, 2.3.c	1.0, 2.3.c
Written and Oral English Language Conventions	1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7	1.0, 1.4, 1.5

Lesson 12 – Water Quality		
Students learn about the importance of clean water and see the effects of pollution using the watershed model and living Fairy Shrimp.		
Subject	Grade 4	Grade 5
Science		
Life Science	3.a, 3.b	
Investigation and Experimentation	6.a, 6.b, 6.c, 6.d, 6.e,	6.a, 6.e, 6.g, 6.h, 6.i
Earth Science		3.e
History/Social Studies		
California: A Changing State	1.2, 4.4, 4.6, 4.7	
Math		
Statistics, Data Analysis and Probability	2.2	1.2
Math Reasoning	1.1, 1.2, 2.1, 2.2, 2.3, 2.4, 3.1, 3.2, 3.3	1.0, 2.0, 3.0
Language Arts		
Reading	1.0, 1.2, 1.3, 2.0, 2.1, 2.2, 2.3, 2.6	1.0, 2.0
Writing	1.0, 1.3, 2.3.a, 2.3.b	2.3.a, 2.3.b, 2.3.c
Written and Oral English Language Conventions	1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7	1.0, 1.1, 1.2, 1.3, 1.4, 1.5
Listening and Speaking	1.0, 1.1, 1.2, 1.6, 1.7, 1.8	1.0, 1.1, 1.3, 1.4, 1.5, 1.6

Lesson 13 – How You Can Help		
Students review the importance of keeping water clean and explore ways to share their knowledge with others.		
Subject	Grade 4	Grade 5
Language Arts		
Reading	1.0, 2.0	1.0, 2.0
Writing	1.0, 2.0, 2.3.a, 2.3.b, 2.3.c	2.0, 2.4.a, 2.4.b, 2.4.c, 2.4.d
Written and Oral English	1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6,	1.0, 1.1, 1.2, 1.3, 1.4, 1.5
Language Conventions	1.7	
Listening and Speaking	1.0, 1.1, 1.2	