

Correlation of

Seeds of Science/Roots of Reading

4th and 5th Grade Integrated Science and Literacy Units:

Aquatic Ecosystems

Planets and Moons

Models of Matter

Chemical Changes

with the

State of Arizona

Literacy Standards for Grades 4 and 5



Seeds of Science/Roots of Reading was created with support from the National Science Foundation.
The program was created by a team at the Lawrence Hall of Science of the University of California, Berkeley.
Created November 2009.



	Aquatic Ecosystems	Planets & Moons	Models of Matter	Chemical Changes
READING STRAND 1: READING PROCESS				
Concept 4: Vocabulary				
Grade 4: PO 1. Use knowledge of root words and affixes to determine the meaning of unknown words.				
Grade 4: PO 2. Use context to determine the relevant meaning of a word.	λ	λ	λ	λ
Grade 4: PO 3. Determine the difference between figurative language and literal language.				
Grade 4: PO 4. Identify figurative language, including similes, personification, and idioms.				
Grade 4: PO 5. Determine the meanings, pronunciations, syllabication, synonyms, antonyms, and parts of speech of words by using a variety of reference aids, including dictionaries, thesauri, glossaries, and CD-ROM and Internet when available.	λ	λ	λ	λ
Grade 4: PO 6. Identify antonyms, synonyms, and homonyms for given words within text.				
Grade 5: PO 1. Use knowledge of root words and affixes to determine the meaning of unknown words.				
Grade 5: PO 2. Use context to determine the relevant meaning of a word or the intended meaning of a word with multiple meanings			λλ	λλ
Grade 5: PO 3. Determine the difference between figurative language and literal language.				
Grade 5: PO 4. Determine the meaning of figurative language, including similes, personification, and idioms.				
Grade 5: PO 5. Determine the meanings, pronunciations, syllabication, synonyms, antonyms, and parts of speech of words by using a variety of reference aids, including dictionaries, thesauri, glossaries, and CD-ROM and Internet when available.	λ	λ	λ	λ
Grade 5: PO 6. Identify antonyms, synonyms, and homonyms for given words within text.				

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READING STRAND 1: READING PROCESS continued				
Concept 5: Fluency				
Grade 4: PO 1. Read from familiar prose and poetry with fluency and appropriate rhythm, pacing, intonation, and expression relevant to the text.	λ	λ	λ	λ
Grade 5: PO 1. Read from familiar prose and poetry with fluency and appropriate rhythm, pacing, intonation, and expression relevant to the text.	λ	λ	λ	λ
Concept 6: Comprehension Strategies				
Grade 4: PO 1. Predict text content using prior knowledge and text features	λλ	λλ	λλλ	λλλ
Grade 4: PO 2. Confirm predictions about text for accuracy.	λλ	λλ	λλ	λλλ
Grade 4: PO 3. Generate clarifying questions in order to comprehend text.	λλλ	λλ	λλ	λλλ
Grade 4: PO 4. Use graphic organizers in order to clarify the meaning of the text.	λλλ	λλλ	λλλ	λλλ
Grade 4: PO 5. Connect information and events in text to life experiences and to related text and sources.	λλ	λλ	λλλ	λλ
Grade 4: PO 6. Use reading strategies to comprehend text.	λλλ	λλλ	λλλ	λλλ
Grade 5: PO 1. Predict text content using prior knowledge and text features	λλ	λλ	λλλ	λλλ
Grade 5: PO 2. Confirm predictions about text for accuracy.	λλ	λλ	λλ	λλλ
Grade 5: PO 3. Generate clarifying questions in order to comprehend text.	λλλ	λλ	λλ	λλλ
Grade 5: PO 4. Use graphic organizers in order to clarify the meaning of the text.	λλλ	λλλ	λλλ	λλλ
Grade 5: PO 5. Connect information and events in text to life experiences and to related text and sources.	λλ	λλ	λλλ	λλ
Grade 5: PO 6. Use reading strategies to comprehend text.	λλλ	λλλ	λλλ	λλλ

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	Aquatic Ecosystems	Planets & Moons	Models of Matter	Chemical Changes
READING STRAND 3: COMPREHENDING INFORMATIONAL TEXT				
Concept 1: Expository Text				
Grade 4: PO 1. Identify the main idea and supporting details in expository text.	λλλ	λλ	λλ	λλ
Grade 4: PO 2. Distinguish fact from opinion in expository text.				
Grade 4: PO 3. Determine author's main purpose for writing the expository text.				
Grade 4: PO 4. Locate specific information by using organizational features of expository text.	λλλ	λλλ	λλλ	λλλ
Grade 4: PO 5. Identify appropriate print and electronic reference sources needed for a specific purpose.	λλ	λλ	λλ	λλ
Grade 4: PO 6. Interpret information from graphic features (e.g., charts, maps, diagrams, illustrations, tables, timelines) in expository text	λλλ	λλλ	λλλ	λλλ
Grade 4: PO 7. Distinguish cause and effect.	λλ	λλ	λλλ	λλ
Grade 4: PO 8. Draw valid conclusions based on information gathered from expository text.	λλλ	λλλ	λλλ	λλλ
Grade 5: PO 1. Identify the main idea and supporting details in expository text.	λλλ	λλ	λλ	λλ
Grade 5: PO 2. Distinguish fact from opinion in expository text, using supporting evidence from text				
Grade 5: PO 3. Determine author's main purpose for writing the expository text.				
Grade 5: PO 4. Locate specific information by using organizational features of expository text.	λλλ	λλλ	λλλ	λλλ
Grade 5: PO 5. Identify appropriate print and electronic reference sources needed for a specific purpose.	λλ	λλ	λλ	λλ
Grade 5: PO 6. Interpret information from graphic features (e.g., charts, maps, diagrams, illustrations, tables, timelines) in expository text	λλλ	λλλ	λλλ	λλλ
Grade 5: PO 7. Identify cause and effect relationships (stated and implied).	λλ	λλ	λλλ	λλ
Grade 5: PO 8. Draw valid conclusions based on information gathered from expository text.	λλλ	λλλ	λλλ	λλλ

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READING STRAND 3: COMPREHENDING INFORMATIONAL TEXT continued				
Concept 2: Functional Text				
Grade 4: PO 1. Locate specific information from functional text				λλ
Grade 4: PO 2. Interpret details from functional text for specific purpose				λλ
Grade 5: PO 1. Locate specific information from functional text				λλ
Grade 5: PO 2. Interpret details from functional text for a specific purpose				λλ
Concept 3: Persuasive Text				
Grade 4: PO 1. Determine the author’s position regarding a particular idea, subject, concept, or object.				
Grade 4: PO 2. Identify persuasive vocabulary used to influence readers' opinions.				
Grade 5: PO 1. Determine an author’s position regarding a particular idea, subject, concept, or object, using supporting evidence from the text.				
Grade 5: PO 2. Identify the intended effect of persuasive vocabulary (e.g., loaded/emotional words, exaggeration, euphemisms) that the author uses to influence readers' opinions.				
Grade 5: PO 3. Identify the intended effect of persuasive strategies (e.g., peer pressure, bandwagon, repetition) that the author uses to influence readers' perspectives.				
WRITING STRAND 1: WRITING PROCESS				
Concept 1: Prewriting				
Grade 4: PO 1. Generate ideas through a variety of activities	λλλ	λλλ	λλλ	λλλ
Grade 4: PO 2. Determine the purpose of an intended writing piece.	λλλ	λλλ	λλλ	λλλ
Grade 4: PO 3. Determine the intended audience of a writing piece.	λλ	λλ	λλ	λλ
Grade 4: PO 4. Use organizational strategies to plan writing.	λλλ	λλλ	λλλ	λλλ
Grade 4: PO 5. Maintain a record of writing ideas				
Grade 4: PO 6. Use time-management strategies, when appropriate, to produce a writing product within a set time period.	λ	λ	λ	λ
Grade 5: PO 1. Generate ideas through a variety of activities	λλλ	λλλ	λλλ	λλλ
Grade 5: PO 2. Determine the purpose of an intended writing piece.	λλλ	λλλ	λλλ	λλλ

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WRITING STRAND 1: WRITING PROCESS continued				
Concept 1: Prewriting continued				
Grade 5: PO 3. Determine the intended audience of a writing piece.	λλ	λλ	λλ	λλ
Grade 5: PO 4. Use organizational strategies to plan writing.	λλλ	λλλ	λλλ	λλλ
Grade 5: PO 5. Maintain a record of writing ideas				
Grade 5: PO 6. Use time-management strategies, when appropriate, to produce a writing product within a set time period.	λ	λ	λ	λ
Concept 2: Drafting				
Grade 4: PO 1. Use a prewriting plan to develop a draft with main idea(s) and supporting details.	λλλ	λλλ	λλλ	λλλ
Grade 4: PO 2. Organize writing into a logical sequence that is clear to the audience.	λλλ	λλλ	λλλ	λλλ
Grade 5: PO 1. Use a prewriting plan to develop a draft with main idea(s) and supporting details.	λλλ	λλλ	λλλ	λλλ
Grade 5: PO 2. Organize writing into a logical sequence that is clear to the audience	λλλ	λλλ	λλλ	λλλ
Concept 3: Revising				
Grade 4: PO 1. Evaluate the draft for use of ideas and content, organization, voice, word choice, and sentence fluency	λλλ	λ	λ	λλλ
Grade 4: PO 2. Add details to the draft to more effectively accomplish the purpose.	λλ	λ	λ	λλ
Grade 4: PO 3. Rearrange words, sentences, and paragraphs to clarify the meaning of the draft.	λ	λ	λ	λ
Grade 4: PO 4. Use a combination of sentence structures to improve sentence fluency in the draft.	λ	λ	λ	λ
Grade 4: PO 5. Modify word choice appropriate to the application in order to enhance the writing.	λλ	λ	λ	λλ
Grade 4: PO 6. Apply appropriate tools or strategies to refine the draft.	λλ	λ	λ	λλ
Grade 4: PO 7. Use resources and reference materials to select more precise vocabulary.	λλλ	λ	λ	λ

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WRITING STRAND 1: WRITING PROCESS continued				
Concept 3: Revising continued				
Grade 5: PO 1. Evaluate the draft for use of ideas and content, organization, voice, word choice, and sentence fluency.	λλλ	λ	λ	λλλ
Grade 5: PO 2. Add details to the draft to more effectively accomplish the purpose.	λλ	λ	λ	λλ
Grade 5: PO 3. Rearrange words, sentences, and paragraphs to clarify the meaning of the draft.	λ	λ	λ	λ
Grade 5: PO 4. Use a combination of sentence structures to improve sentence fluency in the draft.	λ	λ	λ	λ
Grade 5: PO 5. Modify word choice appropriate to the application in order to enhance the writing.	λλ	λ	λ	λλ
Grade 5: PO 6. Apply appropriate strategies to refine the draft..	λλ	λ	λ	λλ
Grade 5: PO 7. Use resources and reference materials to select more precise vocabulary.	λλλ	λ	λ	λ
Concept 4: Editing				
Grade 4: PO 1. Identify punctuation, spelling, and grammar and usage errors in the draft.	λ	λ	λ	λ
Grade 4: PO 2. Use resources to correct conventions.	λ	λ	λ	λ
Grade 4: PO 3. Apply proofreading marks to indicate errors in conventions, although may be inconsistent or experimental.	λ	λ	λ	λ
Grade 4: PO 4. Apply appropriate tools or strategies to edit the draft.	λ	λ	λ	λ
Grade 5: PO 1. Identify punctuation, spelling, and grammar and usage errors in the draft.	λ	λ	λ	λ
Grade 5: PO 2. Use resources to correct conventions.	λ	λ	λ	λ
Grade 5: PO 3. Apply proofreading marks to indicate errors in conventions.	λ	λ	λ	λ
Grade 5: PO 4. Apply appropriate tools or strategies to edit the draft.	λ	λ	λ	λ

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WRITING STRAND 1: WRITING PROCESS continued				
Concept 5: Publishing				
Grade 4: PO 1. Prepare writing in a format appropriate to audience and purpose.	λ	λ	λ	λλλ
Grade 4: PO 2. Share the writing with the intended audience.	λλλ	λλλ	λλλ	λλλ
Grade 4: PO 3. Use margins and spacing to enhance the final product.	λ	λ	λ	λ
Grade 4: PO 4. Write legibly.	λ	λ	λ	λ
Grade 5: PO 1. Prepare writing in a format appropriate to audience and purpose.	λ	λ	λ	λλλ
Grade 5: PO 2. Share the writing with the intended audience.	λλλ	λλλ	λλλ	λλλ
Grade 5: PO 3. Use margins and spacing to enhance the final product.	λ	λ	λ	λ
Grade 5: PO 4. Write legibly.	λ	λ	λ	λ
WRITING STRAND 2: WRITING ELEMENTS				
Concept 1: Ideas and Content				
Grade 4: PO 1. Express ideas that are clear and directly related to the topic.	λλλ	λλλ	λλλ	λλλ
Grade 4: PO 2. Provide content and selected details that are well-suited to audience and purpose.	λλλ	λλλ	λλλ	λλλ
Grade 4: PO 3. Use relevant details to provide adequate support for the ideas.	λλλ	λλλ	λλλ	λλλ
Grade 5: PO 1. Express ideas that are clear and directly related to the topic.	λλλ	λλλ	λλλ	λλλ
Grade 5: PO 2. Provide content and selected details that are well-suited to audience and purpose.	λλλ	λλλ	λλλ	λλλ
Grade 5: PO 3. Use relevant details to provide adequate support for the ideas.	λλλ	λλλ	λλλ	λλλ

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WRITING STRAND 2: WRITING ELEMENTS continued				
Concept 2: Organization				
Grade 4: PO 1. Use a structure that fits the type of writing	λλλ	λλλ	λλλ	λλλ
Grade 4: PO 2. Create a beginning that captures the reader’s interest.	λλ	λλ	λλ	λλ
Grade 4: PO 3. Place details appropriately to support the main idea.	λλλ	λλλ	λλλ	λλλ
Grade 4: PO 4. Use a variety of transitional words that creates smooth connections between ideas.	λλλ	λλ	λλ	λλλ
Grade 4: PO 5. Create an ending that provides a sense of resolution or closure.	λ	λ	λ	λ
Grade 4: PO 6. Construct a paragraph that groups sentences around a topic.	λλλ	λλλ	λλλ	λλλ
Grade 5: PO 1. Use a structure that fits the type of writing	λλλ	λλλ	λλλ	λλλ
Grade 5: PO 2. Create a beginning that captures the reader’s interest.	λλ	λλ	λλ	λλ
Grade 5: PO 3. Place details appropriately to support the main idea.	λλλ	λλλ	λλλ	λλλ
Grade 5: PO 4. Use a variety of words or phrases that creates smooth and effective transitions.	λλλ	λλ	λλ	λλλ
Grade 5: PO 5. Create an ending that provides a sense of resolution or closure.	λ	λ	λ	λ
Grade 5: PO 6. Construct a paragraph that groups sentences around a topic.	λλλ	λλλ	λλλ	λλλ

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WRITING STRAND 2: WRITING ELEMENTS continued				
Concept 3: Voice				
Grade 4: PO 1. Show awareness of the audience through word choice and style.	λ	λ	λ	λ
Grade 4: PO 2. Convey a sense of originality, sincerity, liveliness, or humor appropriate to topic and type of writing.	λλ	λ	λ	λ
Grade 5: PO 1. Show awareness of the audience through word choice and style.	λ	λ	λ	λ
Grade 5: PO 2. Convey a sense of originality, sincerity, liveliness, or humor appropriate to topic and type of writing.	λλ	λ	λ	λλ
Grade 5: PO 3. Use language appropriate for topic and purpose.	λλλ	λλλ	λλλ	λλλ
Concept 4: Word Choice				
Grade 4: PO 1. Use a variety of specific and accurate words that effectively convey the intended message.	λλλ	λλλ	λλλ	λλλ
Grade 4: PO 2. Use descriptive words and phrases that energize the writing.	λλλ			
Grade 4: PO 3. Apply vocabulary and/or terminology appropriate to the type of writing.	λλλ	λλλ	λλλ	λλλ
Grade 4: PO 4. Use literal and figurative language in a variety of ways although may be inconsistent or experimental.	λλ			
Grade 5: PO 1. Use a variety of specific and accurate words that effectively convey the intended message.	λλλ	λλλ	λλλ	λλλ
Grade 5: PO 2. PO 2. Use descriptive words and phrases that energize the writing.			λλλ	λλλ
Grade 5: PO 3. Apply vocabulary and/or terminology appropriate to the type of writing.	λλλ	λλλ	λλλ	λλλ
Grade 5: PO 4. Use literal and figurative language in a variety of ways.	λλ			

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WRITING STRAND 2: WRITING ELEMENTS continued				
Concept 5: Sentence Fluency				
Grade 4: PO 1. Write simple and compound sentences.	λλ	λλ	λλ	λλ
Grade 4: PO 2. Write sentences that flow together and sound natural when read aloud.	λλ	λλ	λλ	λλ
Grade 4: PO 3. Vary sentence beginnings, lengths, and patterns to enhance the flow of the writing.	λ	λ	λ	λ
Grade 4: PO 4. Use effective and natural dialogue when appropriate.	λλ	λλ	λλ	λλ
Grade 5: PO 1. Write simple and compound sentences.	λλ	λλ	λλ	λλ
Grade 5: PO 2. Write sentences that flow together and sound natural when read aloud.	λ	λ	λ	λ
Grade 5: PO 3. Vary sentence beginnings, lengths, and patterns to enhance the flow of the writing.				
Grade 5: PO 4. Use effective and natural dialogue when appropriate.				
Concept 6: Conventions				
Grade 4: PO 1. Use capital letters	λ	λ	λ	λ
Grade 4: PO 2. Punctuate endings of sentences	λ	λ	λ	λ
Grade 4: PO 3. Use commas to punctuate	λ	λ	λ	λ
Grade 4: PO 4. Use quotation marks to punctuate dialogue, although may be inconsistent or experimental.				
Grade 4: PO 5. Use a colon to punctuate time.				
Grade 4: PO 6. Use apostrophes to punctuate				
Grade 4: PO 7. Spell high-frequency words correctly.	λ	λ	λ	λ
Grade 4: PO 8. Use common spelling patterns/generalizations to spell words correctly	λ	λ	λ	λ
Grade 4: PO 9. Spell simple homonyms correctly in context.	λ	λ	λ	λ
Grade 4: PO 10. Use resources to spell correctly.	λ	λ	λ	λ

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WRITING STRAND 2: WRITING ELEMENTS continued				
Concept 6: Conventions continued				
Grade 4: PO 11. Use the following parts of speech correctly in simple sentences: nouns, action verbs, personal pronouns, adjectives	λλ	λλ	λλ	λλ
Grade 5: PO 1. Use capital letters	λ	λ	λ	λ
Grade 5: PO 2. Punctuate endings of sentences	λ	λ	λ	λ
Grade 5: PO 3. Use commas to punctuate	λ	λ	λ	λ
Grade 5: PO 4. Use quotation marks to punctuate dialogue, although may be inconsistent or experimental.				
Grade 5: PO 5. Use a colon to punctuate time.				
Grade 5: PO 6. Use apostrophes to punctuate				
Grade 5: PO 7. Spell high-frequency words correctly.	λ	λ	λ	λ
Grade 5: PO 8. Use common spelling patterns/generalizations to spell words correctly	λ	λ	λ	λ
Grade 5: PO 9. Spell simple homonyms correctly in context.	λ	λ	λ	λ
Grade 5: PO 10. Use resources to spell correctly.	λ	λ	λ	λ
Grade 5: PO 11. Use paragraph breaks to indicate an organizational structure.	λ	λλ	λ	λλ
WRITING STRAND 3: WRITING APPLICATIONS				
Concept 2: Expository				
Grade 4: PO 1. Record information related to the topic.	λλλ	λλλ	λλλ	λλλ
Grade 4: PO 2. Write an expository paragraph that contains: a topic sentence, supporting details, relevant information	λλλ	λλλ	λλλ	λλλ
Grade 4: PO 3. Write in a variety of expository forms	λλ	λλ	λλ	λλ
Grade 5: PO 1. Record information related to the topic.	λλλ	λλλ	λλλ	λλλ
Grade 5: PO 2. Write an expository paragraph that contains: a topic sentence, supporting details, relevant information	λλλ	λλλ	λλλ	λλλ
Grade 5: PO 3. Write in a variety of expository forms	λλ	λλ	λλ	λλ

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WRITING STRAND 3: WRITING APPLICATIONS continued				
Concept 3: Functional				
Grade 4: PO 1. Write a variety of functional text				λλ
Grade 4: PO 2. Write communications, including thank-you notes, friendly letters, formal letters, messages, and invitations				
Grade 4: PO 3. Address an envelope for correspondence				
Grade 5: PO 1. Write a variety of functional text				λλ
Grade 5: PO 2. Write communications, including thank-you notes, friendly letters, formal letters, messages, and invitations				
Grade 5: PO 3. Address an envelope for correspondence				
Concept 6: Research				
Grade 4: PO 1. Paraphrase information from at least one source	λλλ	λλλ	λλλ	λλλ
Grade 4: PO 2. Organize notes in a meaningful sequence.	λλλ	λλ	λλ	λλ
Grade 4: PO 3. Write an informational report that includes main idea(s) and relevant details.	λλλ	λλλ	λλλ	λλλ

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WRITING STRAND 3: WRITING APPLICATIONS continued				
Concept 6: Research continued				
Grade 5: PO 1. Paraphrase information from at least one source	λλλ	λλλ	λλλ	λλλ
Grade 5: PO 2. Organize notes in a meaningful sequence.	λλλ	λλ	λλ	λλ
Grade 5: PO 3. Write an informational report that includes main idea(s) and relevant details.	λλλ	λλλ	λλλ	λλλ
LISTENING AND SPEAKING				
Essentials (Grades 4-8)				
LS-E1. Prepare and deliver an organized speech and effectively convey the message through verbal and nonverbal communications with a specific audience	λλ	λλ	λλ	λλλ
LS-E2. Prepare and deliver an oral report in a content area and effectively convey the information through verbal and nonverbal communications with a specific audience	λλ	λλ	λλ	λλλ
VIEWING AND PRESENTING				
Essentials (Grades 4-8)				
VP-E1. Analyze visual media for language, subject matter and visual techniques used to influence opinions, decision making and cultural perceptions				
VP-E2. Plan, develop and produce a visual presentation, using a variety of media such as videos, films, newspapers, magazines and computer images				
VP-E3. Compare, contrast and establish criteria to evaluate visual media for purpose and effectiveness				

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