

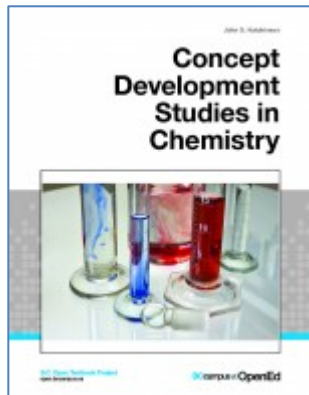


## Faculty Review of Open eTextbooks

The [California Open Educational Resources Council](http://www.cool4ed.org) has designed and implemented a faculty review process of the free and open etextbooks showcased within the California Open Online Library for Education ([www.cool4ed.org](http://www.cool4ed.org)). Faculty from the California Community Colleges, the California State University, and the University of California were invited to review the selected no/low cost and open etextboks using a rubric. Faculty received a stipend for their efforts and funding was provided by the State of California, the William and Flora Hewlett Foundation, and the Bill and Melinda Gates Foundation.

Textbook Name:

### Concept Development Studies in Chemistry



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Find it: [eTextbook Website](#)

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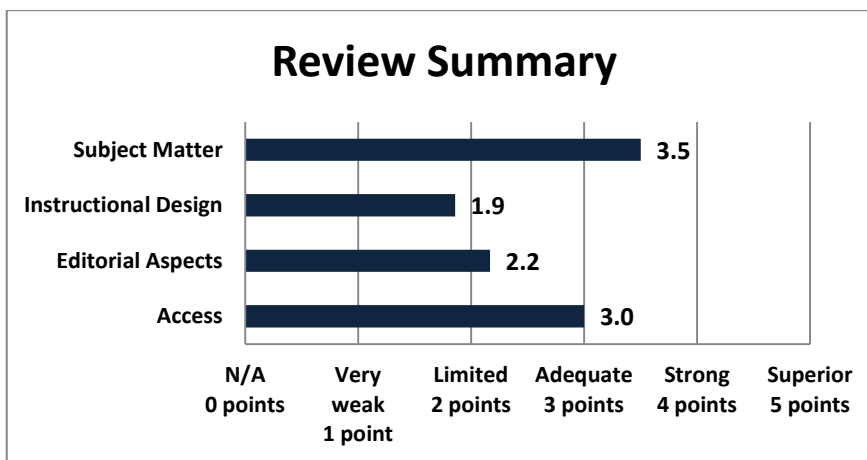
Format Reviewed:

[PDF](#)

A small fee may be associated with various formats.

Date Reviewed:

August, 2014.



### California OER Council eTextbook Evaluation Rubric

CA Course ID: [CHEM 110](#) or [CHEM 120S](#)

Subject Matter (30 possible points)	N/A (0 pts)	Very Weak (1pt)	Limited (2 pts)	Adequate (3pts)	Strong (4 pts)	Superior (5 pts)
Is the content accurate, error-free, and unbiased?						X
Does the text adequately cover the designated course with a sufficient degree of depth and scope?			X			
Does the textbook use sufficient and relevant examples to present its subject matter?					X	
Does the textbook use a clear, consistent terminology to present its subject matter?						X
Does the textbook reflect current knowledge of the subject matter?						X

<b>Subject Matter (30 possible points)</b>	N/A (0 pts)	Very Weak (1pt)	Limited (2 pts)	Adequate (3pts)	Strong (4 pts)	Superior (5 pts)
Does the textbook present its subject matter in a culturally sensitive manner? (e.g. Is the textbook free of offensive and insensitive examples? Does it include examples that are inclusive of a variety of races, ethnicities, and backgrounds?)	X					

Total points: 21 out of 30

Please provide comments on any aspect of the subject matter of this textbook:

This book could be used as a supplement to other materials, but it is sufficient by itself to be used as the sole textbook in an introductory chemistry course.

<b>Instructional Design (35 possible points)</b>	N/A (0 pts)	Very Weak (1pt)	Limited (2 pts)	Adequate (3pts)	Strong (4 pts)	Superior (5 pts)
Does the textbook present its subject materials at appropriate reading levels for undergrad use?			X			
Does the textbook reflect a consideration of different learning styles? (e.g. visual, textual?)		X				
Does the textbook present explicit learning outcomes aligned with the course and curriculum?		X				
Is a coherent organization of the textbook evident to the reader/student?				X		
Does the textbook reflect best practices in the instruction of the designated course?					X	
Does the textbook contain sufficient effective ancillary materials? (e.g. test banks, individual and/or group activities or exercises, pedagogical apparatus, etc.)		X				
Is the textbook searchable?		X				

Total points: 13 out of 35 points

Please provide comments on any aspect of the subject matter of this textbook:

- Very few diagrams or figures.
- Although the content and reflective questions at the end of each question are excellent, the lack of visuals is a problem.
- There are very few example problems worked and few problems at the end of each chapter.

<b>Editorial Aspects (25 possible points)</b>	N/A (0 pts)	Very Weak (1pt)	Limited (2 pts)	Adequate (3pts)	Strong (4 pts)	Superior (5 pts)
Is the language of the textbook free of grammatical, spelling, usage, and typographical errors?						X
Is the textbook written in a clear, engaging style?					X	
Does the textbook adhere to effective principles of design? (e.g. are pages laid out and organized to be clear and visually engaging and effective? Are colors, font, and typography consistent and unified?)			X			
Does the textbook include conventional editorial features? (e.g. a table of contents, glossary, citations and further references)			X			
How effective are multimedia elements of the textbook? (e.g. graphics, animations, audio)	X					

Total points: 13 out of 25 points

Please provide comments on any aspect of the subject matter of this textbook:

Again, there are no graphics and few visuals. This is a very barebones text which would need additional resources to be used in an intro course.

<b>Access (30 possible points)</b>	N/A (0 pts)	Very Weak (1pt)	Limited (2 pts)	Adequate (3pts)	Strong (4 pts)	Superior (5 pts)
Is the textbook compatible with standard and						X

Access (30 possible points)	N/A (0 pts)	Very Weak (1pt)	Limited (2 pts)	Adequate (3pts)	Strong (4 pts)	Superior (5 pts)
commonly available hardware/software in college/university campus student computer labs?X						
Is the textbook accessible in a variety of different electronic formats? (e.g. .txt, .pdf, .epub, etc.)		X				
Can the textbook be printed easily?						X
Does the user interface implicitly inform the reader how to interact with and navigate the textbook?				X		
How easily can the textbook be annotated by students and instructors?					X	

Total points: 11 out of 30 points

Please provide comments on any aspect of the subject matter of this textbook:

This text is only available as a pdf. It can be annotated.

Overall Ratings (10 possible points)						
	Not at all (0 pts)	Very Weak (1 pt)	Limited (2 pts)	Adequate (3 pts)	Strong (4 pts)	Superior (5 pts)
What is your overall impression of the textbook?			X			
	Not at all (0 pts)	Strong reservations (1 pt)	Limited willingness (2 pts)	Willing (3 pts)	Strongly willing (4 pts)	Enthusiastically willing (5 pts)
How willing would you be to adopt this book?			X			

## Overall Comments

If you were to recommend this textbook to colleagues, what merits of the textbook would you highlight?

Only useful as a supplement, but the approach is interesting and the reflection questions are an excellent way to approach conceptual knowledge of chemistry.

What areas of this textbook require improvement in order for it to be used in your courses?

It could be used as a supplement, but it would need to be expanded enormously to be used as the sole source. There are too many areas that need improvement for it to be a viable textbook.

We invite you to add your feedback on the textbook or the review to [the textbook site in MERLOT](#).  
(Please [register](#) in MERLOT to post your feedback.)



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