Textbook and Instructional Material Evaluation Rubric Form-Mathematics

Instructional materials are designed for use by students and teachers as a learning resource for students to acquire essential knowledge, skills, abilities, and dispositions. This includes print and non-print materials, including comprehensive/core textbooks, supplemental materials, Web-based and electronic textbooks, and assessments.

Title: Precalculus with Limits,A Gr Author(s): Larson Publisher(s): Cengage Learning

Copyright Date: 2016 Subject/Grade Level: 11 and 12th

Student ISBN: 13-978-1-305-07171-1

Teacher Edition ISBN: 13-978-1-305-11753-2

Instructions: Use the tables below to determine if the Textbook or Instructional material meets each criteria.

Organization

Criteria	2 Meets	1 Inadequate	Comments
1. Material provides a useful table of contents, glossary, supplemental pages, and index.	2		Mathematical Proofs are in separate section that allow students to explore and gain in-depth understandings.
2. Layout is consistent; chapters/units are arranged logically; and allow access through multiple modalities.	2		
3. Teacher edition contains interesting introductions and a list of prerequisites skills for each chapter.		1	Does not include prerequisites skills for each chapter
4. Material contains examples, explanations, formulas and/or online resources to required depth and breadth of the Nevada Academic Content Standards.	2		Online tutorial videos are high qualities. Check points support English and Spanish.
5. Information is accurate, current, and research-based.	2		
6. Vocabulary is specialized (language carefully considered and evolves across grade level).		1	The definitions and vocabs at times are too mathematical that requires multiple revisit after going through different ex
7. Size and format of print is appropriate.	2		
8. Format is visually appealing and interesting.	2		Pictures and problems are very relatable for students
9. Material provides Smarter Balanced assessment type questions and/or performance-based tasks.	2		Online support for project base performance asssessment
10. Electronic and interactive format available.	2		
Other: _____			
Total Organization:	18		

Mathematics Content

Criteria	2 Meets	1 Inadequate	Comments
11. Materials **focus** on the knowledge, skills, and abilities (KSA's) appropriate to the grade level.	2		
12. Material demonstrates **coherence** of KSA's appropriate to grade level.	2		
13. Material demonstrates complexity to conceptual understanding, procedural skills, fluency, and application (**rigor**).	2		
14. Material is consistent with the progression of the KSA at each grade level.	2		Exercises are clearly broken down by sections with accumulative mixed review
15. Real-world applications are given and relevant to the students.	2		Clearly stated on field related to real life.
16. Information and directions are clearly written and explained.	2		
17. Tasks are aligned to the domains of the Nevada Academic Content Standards.	2		
18. Lessons/tasks are interdisciplinary when appropriate.		1	No evidence
19. Non-text content (maps, graphs, pictures, etc.) are accurate, authentic, and well integrated into the instructional material.	2		Very relatable to students
20. Tasks apply to the diversity of students and their abilities, interests, and learning styles.	2		Online support is attractive to different learning styles
21. Questions and tasks encourage the development and application of higher-level thinking skills.	2		
22. Teacher edition includes questioning strategies and/or questions to check for understanding at all Depth of Knowledge (DOK) levels.		1	Only support checking of understanding
23. Teacher edition includes formative assessment/evaluation tools and processes.	2		Well support of formal and summative assessments.
24. Material and tasks focus on the eight Mathematical Practices.	2		
25. Material provides access to or demonstrates concepts in multiple ways, allowing for a variety of student responses.	2		Mostly in the exercises
26. Tasks have a purpose, aligned to a skill or concept at grade level.	2		
27. Material includes understanding and application of skills and concepts at grade level.	2		
28. Material provides strategic use of mathematical tools, including technology.	2		Heavily incorporate with the use of scientific calculator
29. The material is focused on the major ideas/skills at that grade level.	2		
30. Content includes 21st Century skill development such as collaboration, creative thinking, and problem solving.	2		Include exploration that encourage classroom conversation. It is open ended that encourage
Other: _____			Excellent teacher's edition that provide pacing guide, planning guidance, student motivation
Total Mathematics Content Criteria:	38		

Inclusion

Criteria	2 Meets	1 Inadequate	Comments
31. Material reflects a variety of ways to differentiate instruction and model content to support all learners.	2		More on the online resources
32. Material reflects sensitivity with regard to gender, race/ethnicity, religion, socio-economic status, intellectual, and physical abilities.	2		
33. Material includes access to a multilingual glossary.	2		Only on the online resources
34. Material provides resources for students with disabilities and English Language Learners aligned to grade level content.	2		
35. Material is available for students with visual impairments via a NIMAS file on the NIMAC system.		1	No evidence
Other: _____			
Total Inclusion Criteria:	9		

Alignment

Criteria	2 Meets	1 Inadequate	Comments
36. Material content aligns to district/organization curriculum.	2		
37. Material content aligns with college and career readiness skills (Nevada Academic Content Standards).	2		
38. Material is a useful resource in preparing students to meet the requirements of the Nevada Academic Content Standards and statewide assessments.	2		
Other: _____			
Total Alignment Criteria:	6		

Total Score for Mathematics Textbook or Instructional Material: 71