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 Author(s): Blitzer Publisher(s): Pearson

Copyright Date: 2018,2014,2014 Subject/Grade Level: Precalculs

Student ISBN: 9780134469140

Teacher Edition ISBN: 9780134470078

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		Application index is provided
2. Layout is consistent; chapters/units are arranged logically; and allow access through multiple modalities.	2		Prerequisites are layout clearly for students and teachers
3. Teacher edition contains interesting introductions and a list of prerequisites skills for each chapter.	2		Beginning of the book, divided in sections 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 assessment has practice option to allow students to understand their mistakes
5. Information is accurate, current, and research-based.		1	Found one of the online guided video has a misleading explanation of amplitude in tangent functions
6. Vocabulary is specialized (language carefully considered and evolves across grade level).	2		The vocabulary are introduce in the chronological order to build students conceptual understanding with appropriate n
7. Size and format of print is appropriate.	2		Different highlight to draw attention
8. Format is visually appealing and interesting.	2		Consistent format
9. Material provides Smarter Balanced assessment type questions and/or performance-based tasks.	2		Assessment allows students to work on solutions and enter their results.
10. Electronic and interactive format available.	2		Online assessment has practice option to allow students to step through the questions
Other: _____	2		Online tutoring of scientific calculator is helpful. Incorporate technology in contents understanding,.
Total Organization:			

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		
15. Real-world applications are given and relevant to the students.	2		
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	
19. Non-text content (maps, graphs, pictures, etc.) are accurate, authentic, and well integrated into the instructional material.	2		
20. Tasks apply to the diversity of students and their abilities, interests, and learning styles.		1	
21. Questions and tasks encourage the development and application of higher-level thinking skills.	2		Include exercises for higher-order thinking in each sections
22. Teacher edition includes questioning strategies and/or questions to check for understanding at all Depth of Knowledge (DOK) levels.		1	Teacher edition not provided
23. Teacher edition includes formative assessment/evaluation tools and processes.		1	Teacher edition not provided. Formative assessment not provided . Mid term and summative
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		
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		Section to support 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.		1	Lack of collaboration and exploration
Other: _____			
Total Mathematics Content Criteria:	35		

Inclusion

Criteria	2 Meets	1 Inadequate	Comments
31. Material reflects a variety of ways to differentiate instruction and model content to support all learners.		1	Limited online tutorial for audio learners
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.		1	English only
34. Material provides resources for students with disabilities and English Language Learners aligned to grade level content.		1	
35. Material is available for students with visual impairments via a NIMAS file on the NIMAC system.		1	Not available
Other: _____			
Total Inclusion Criteria:	6		

Alignment

Criteria	2 Meets	1 Inadequate	Comments
36. Material content aligns to district/organization curriculum.	2		Meets all topics listed on the WSCD instructional guides
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: 68