2017-2018 WCSD Precalculus with Trigonometry Program Evaluation Rubric

Evaluator Number

9

Program Number

3

Name of Text

Precalculus, 6th Edition

Publisher

Pearson

Rate This Text Overall

- [x] High
- [ ] Mid
- [ ] Low

Focus: Evaluate the table of contents and any pacing guides. Do not stop there; also evaluate units, chapters, and lessons. (Both student and teacher materials)

- Functions
- Polynomial Functions
- Rational Functions
- Exponential Functions
- Logarithms Functions
- Trigonometric Functions
- Analytic Trigonometry
- Systems
- Conic Sections
- Sequences and Series
- Limits and Continuity

At least 90% of the topics are in the textbook.
Comments?

This is the newer edition than the one currently being used in the classroom.
No pacing guide.
Limited guided notes in the instructor's edition

- ○ Less than 25%
- ○ Less than 60% but greater than 25%
- ○ Less than 90% but greater than 60%
- ● At least 90%

Useful notes for teachers to encourage classroom discussions and to link to previous learned concepts.

Is the text readable for students? Does it support good math language acquisition?
Comments?

The text book is very readable for students. The examples are very well explained and can be self guided/pace for student learning.

- ○ Does not occur
- ○ Sometimes occurs
- ○ Frequently occurs
- ● Consistently occurs

Student work involves significant work with applications/modeling and problems that use algebra skills.
Comments?

Applications/Modeling Section is included in the exercise. It includes a real life explanation before the introduction of an example. It makes relevant to students and provide a classroom discussion.

- ○ Does not occur
- ○ Sometimes occurs
- ○ Frequently occurs
- ● Consistently occurs

There are problems at a level of sophistication appropriate to Pre-Calculus with Trigonometry (beyond mere review of Algebra 2 course topics) that involve the application of knowledge and skills.
Comments?

It focuses of using algebra 2 skill to incorporate modelings and applications. The Great Question Section provides students opportunity to gain in depth understanding of concepts.

- ○ Does not occur
- ○ Sometimes occurs
- ○ Frequently occurs
- ● Consistently occurs

Rigor: Examine the instructional materials, student practice and assessments. Look for evidence of where the topics explicitly require students to understand concepts, do the assignments that students work on build that understanding, and do assessment tasks reveal whether students understand the mathematics in question?
Comments?

The online assessment has a practice option to allow students to gain procedural and conceptual understanding through mistakes.
But found one of the online guided video has mistakes on graphing tangent functions,

- ○ Does not occur
- ○ Sometimes occurs
- ● Frequently occurs
- ○ Consistently occurs

Rigor: Do the materials feature high-quality conceptual problems and conceptual discussion questions? Do they provide opportunities for multiple representations?

Comments?

The "Critical Thinking" exercise provides students the opportunities to learn and improve reasoning and problem solving skills.

- ○ Does not occur
- ○ Sometimes occurs
- ○ Frequently occurs
- ◉ Consistently occurs

Rigor: Are the materials designed so that students attain the fluency and procedural skills required? Evaluate the lessons, chapter/unit assessments, daily routines, and homework assignments for evidence in the development of fluency and procedural skill supported by conceptual understanding.

Comments?

Multiple check points are included in the text to allow teachers and students to stay on pace of the conceptual and procedural understanding.

- ○ Does not occur
- ○ Sometimes occurs
- ○ Frequently occurs
- ◉ Consistently occurs

Rigor: Are the materials designed so that teachers and students spend sufficient time working with applications, without losing focus on the topics defined for the course? Are there single- and multi-step contextual problems that develop the mathematics of the course, afford opportunities for practice, and engage students in problem solving?

Comments?

The step by step annotation is helpful for students to comprehend and gain in depth conceptual understanding.

- ○ Does not occur
- ○ Sometimes occurs
- ○ Frequently occurs
- ◉ Consistently occurs

Coherence: Are the materials coherent in their content, do the topics build on each other in a way that is beneficial to the instruction, student practice and assessments?

Comments?

The contents are well layout for students to build conceptual understanding from one chapter to the other. The retaining and preview exercise allow students to recall knowledge and be ready to learn new concepts

- ○ Does not occur
- ○ Sometimes occurs
- ○ Frequently occurs
- ◉ Consistently occurs