2017-2018 WCSD CAP Prob/Stats with Discrete Program Evaluation Rubric

Evaluator Number

23

Includes a fully web-based version of the complete text, including interactive, and multimedia features appropriate for student use, including home use, and accessible on a variety of digital devices and operating systems.

May include supplemental digital materials and enhancements such as virtual manipulatives, interactive games, and video appropriate for collaborative and individual learning environments. May include online professional development components and additional instructional planning resources for teachers.

May include resources in other languages (Spanish for our two-way immersion schools).

Program -	***1***	***2***	***3***	***4***	***5***
Does not occur	○	○	●	○	○
Sometimes occurs	●	○	○	○	●
Frequently occurs	○	○	○	●	○
Consistently occurs	○	●	○	○	○

Comments or concerns

(1) It is my understanding that the web resources supplement the text and don't redo it - but I have not confirmed this.
(2) Text fully available online in my math labs or MathXL formats - good teacher reporting tools and these have a tenuous connection to Newton advisory software as well.
(3) Supposedly available with Aleks 360 - how this might work is totally unclear.
(4) There is a lot of web support including applets and videos and lots of material for teachers to help them with PD.

Includes a balanced assessment program with a variety of formative assessments and a monitoring component.

Program -	**1**	**2**	**3**	**4**	**5**
Does not occur	○	○	○	○	○
Sometimes occurs	●	○	○	○	○
Frequently occurs	○	○	●	○	●
Consistently occurs	○	●	○	●	○

Comments or concerns

(1) In general in statistics problems are lengthy and in general more conceptual so formative assessments are less practical. The instructor guide provides little beyond the answers to the even numbered problems so it's value is questionable. I don't see a bank of test questions for instructors to use.
(2) Online resources and Newton should provide this if it can be made available to all students online.

Provides Differentiated Instruction including the needs of diverse learners

Program -

	1	2	3	4	5
Does not occur	●	○	●	○	●
Sometimes occurs	○	●	○	○	○
Frequently occurs	○	○	○	●	○
Consistently occurs	○	○	○	○	○

Comments or Concerns

(1,3) Nothing mentioned on this.
(2) knewton should be explored in this context.
(4) On line test banks will be of some help here.
(5) This may be embedded in the teacher materials but I did not see it and I doubt it is there as the line of thinking of the material is quite linear and cooperatively based. A teacher skilled in these cooperative learning techniques should not have a lot of problems in this area as the topics are not

Represents the diversity of our current society in a culturally responsive manner.

Program -

	1	2	3	4	5
Does not occur	○	○	○	○	○
Sometimes occurs	○	○	○	○	○
Frequently occurs	●	●	●	●	●
Consistently occurs	○	○	○	○	○

Comments or concerns

I use this category to make general comments:
(1) No discrete math topics so those will need to be supplemented. I find the topics to be well motivated but since the students will have solutions to all the odd numbered problems it is not clear how much meaningful homework can be assigned and graded. No test banks.
(2) Online resources are extensive for testing - two texts would be used here and it seems pitifully little is done outside of prob stats. Voting theory should be covered as this is essential for an

Quality/Production of materials including cover, binding, print

Program -

	1	*2*	*3*	*4*	*5*
Does not occur	○	○	○	○	●
Sometimes occurs	○	○	○	○	○
Frequently occurs	●	○	○	●	○
Consistently occurs	○	●	●	○	○

Comments or Concerns

(1) Text is solid but teacher's manual is just paperback. Student solution manual is just paperback - would that be provided to students?
(2,5) Solid text - Unknown what student supplements are available.
(3) Super solid with reinforced bindings.
(4) Solid text - what supplements are available besides online materials and are these paper back or

The program has been shown to have positive scientific achievement results conducted by independent, peer reviewed, and published research.
Research should be by an outside evaluator. This means that there must be research beyond that conducted by the institution or program producing the materials (beyond publisher research on their own product). Peer reviewed means that an independent and qualified educational institution (university) conducts the review and maintains all standards of peer review process.

Programs -

	1	2	3	4	5
Does not occur	●	●	●	●	●
Sometimes occurs	○	○	○	○	○
Frequently occurs	○	○	○	○	○
Consistently occurs	○	○	○	○	○

Comments or concerns

(1,2,3,4) No study.
(5) There cannot be a study because this is a non-traditional approach - how would you compare to anything else?

The program supports learning at home
The program offers resources for teachers to communicate instructional goals to parents and help them understand the difference between problem solving and answer-getting and offers suggestions for how to help their children with skills at home including homework.
Homework assignments support classroom learning. Homework assignments extend concepts in the real world, for example, gathering data at home.
The concepts in the homework are clear, accurate, and free of errors. May include digital component for parents/students with calendar, resources, games, manipulatives, and ability to access homework from home.

Program -

	1	2	3	4	5
Does not occur	○	○	○	○	●
Sometimes occurs	●	○	●	○	○
Frequently occurs	○	○	○	●	○
Consistently occurs	○	●	○	○	○

Comments or concerns

(1) No outreach to parents - web resources are a supplement and probably hard to learn directly from. Parents a will be in a weaker position to help than they would be in even an ordinary math class.
(2) Fully web based - parents can play along!
(3) No evidence of this except possibly with Aleks 360.
(4) Show parents the applets and video and invite them to help kids gather interesting data - not exactly the text but very engaging for parents who want to play along.

Textual materials are generally well organized and limit pictures/images that do not support the skills being developed. There is appropriate use of font size and format for intended grade level, appropriate and varied pictures, tables, and graphs. Key academic vocabulary or phrases may be boldfaced and/or italicized. Tables of contents, indices, glossaries, content summaries, and assessment guides are designed to help teachers, parents/guardians/families, and students.

Program -

	1	2	3	4	5
Does not occur	○	○	○	○	○
Sometimes occurs	○	○	○	○	○
Frequently occurs	○	○	○	○	○
Consistently occurs	●	●	●	●	●

Comments or concerns

(1) Fun to read text with thought provoking examples and good descriptions of how stats work. It would be good if they also had examples of the misuse of statistics. For future users of statistics the point needs to be made that it is often essential to consult a statistician.
(2) Both texts are fun to read with colorful displays - stats and discrete texts need lots of extra material to motivate these studies. These courses are far easy to sell as useful knowledge than many math courses.