



Why you should upgrade from TPS 4e to TPS 7e.

From Daren and Josh -

The Practice of Statistics 4e was published in January 2011. In May 2019, the College Board released a new Course and Exam Description (CED) for AP[®] Statistics to replace the much smaller “acorn book” that previously defined the course. For users of *TPS 4e*, there are three very important things to note:

1. Several new topics have been added to the curriculum that are not included in *TPS 4e*, including mosaic plots, systematic random sampling, and the standard deviation of a geometric random variable. Additionally, several topics are emphasized more than in the past (e.g., checking for independence when doing inference, specifically the 10% condition). There is also a new formula sheet with different notation in some cases.
2. The sequence of topics in the CED is not the same as in *TPS 4e*. For example, in the CED, the inference procedures are arranged by type of data (proportions vs. means) rather than the order in *TPS 4e*, which is organized by type of inference (confidence intervals vs. significance tests). Although you can teach the content in any order that you like, the resources in AP Classroom (Topic Questions, Progress Checks, AP Daily Videos, and the Question Bank) have been built for the sequence prescribed by the CED.
3. The CED is divided into 9 units, while *TPS 4e* is divided into 12 chapters. This creates confusion for teachers and students who are trying to align the content in *TPS* with the CED. For example, Chapter 2 in *TPS 4e* is part of Unit 1, Chapters 5 and 6 in *TPS 4e* are in Unit 4, and so on.

The book’s website (bfwpub.com/tps7e) has a lot of useful information about our new edition, but we want to highlight some important goals of *TPS 7e* here. These goals show how we capitalized on what we have learned since 2019 to address the concerns above, as well as describe many other new and continuing features that set *TPS* apart from its competitors.

- **Sharpen Alignment to the AP Statistics CED and AP Classroom Resources.** The 7th edition of *TPS* perfectly aligns with the College Board’s Course and Exam Description (CED) for AP Statistics. The nine units in the CED correspond exactly with the nine units in *TPS 7e*, with longer units broken into two parts. This alignment makes it easy for teachers and students to know exactly where to look for resources in AP Classroom. Furthermore, the order of topics within units is also very tightly aligned to the CED, making it easy to use AP Daily videos, Topic Questions, and Progress Checks during the unit.



- **Make the Structure within Sections More Transparent.** In the 5th edition of *TPS*, we added Learning Targets at the beginning of each section so students can easily identify what they need to know. In the 7th edition, we reorganized every section so that each Learning Target has a single corresponding subsection, each subsection has an example format addressing the Learning Target, and each example leads to a very similar exercise (which has a back reference to the example). In the Section Exercises, we added headings corresponding to the Learning Targets to make it easier for teachers to create assignments.
- **Provide AP-Style Model Solutions in the Examples.** Speaking of examples, in *TPS 7e*, all of the examples are written in problem/solution format, giving students solutions that are closely modeled after current (2021 and later) AP exam scoring guidelines. Furthermore, in each of these examples, the voice of the teacher and the voice of the student have been separated with model student solutions in handwritten font and *teacher talk* in separate dialogue boxes to the right side of the student solution. Also new since *TPS 4e*, all of the examples and linked exercises have free, student-facing videos where an experienced AP reader guides the students through the question and solution.
- **Assist with Planning and Pacing.** There is a lot of content to cover in AP Statistics, so we worked hard to “trim the fat” whenever possible. For example, the discussions about transformations to achieve linearity, linear transformations of random variables, and chi-square tests for homogeneity have been reduced. We also removed some optional topics, such as normal probability plots. Finally, we placed the *Check Your Understanding* features strategically to identify the amount of content that fits in a 45 to 50 minute lesson.
- **Promote Active Learning.** Throughout *TPS 7e*, we continue to include classroom-tested activities that help introduce the content or deepen conceptual understanding. Many of these activities now feature the custom-made applets at www.stapplet.com. Furthermore, the experience first-formalize later lessons available at www.statsmedic.com continue to be closely aligned with *TPS*.
- **Promote Success on the AP Exam.** As the only textbook written exclusively for AP[®] Statistics, our primary goal is to help students achieve success on the AP exam. Between Daren and Josh, the authors have nearly 50 years of experience at the AP Reading, serving primarily in leadership roles. Josh also spent 4 years on the Test Development Committee that writes the exam. New to the 7th edition are “For Investigation” exercises in every section to help prepare students for the exam’s Investigative Task and two additional types of AP Exam Tips: AP Exam Formula Sheet references and recommended AP Daily videos. New since the 4th edition, *Free Response AP Problem, Yay! (FRAPPY!)* activities at the end of each unit include free-response questions and scoring guidelines updated to match the current (2021 and later) AP exam style and content. You will find other continuing features that



make exam preparation a clear priority: AP-level multiple choice questions at the end of every section, AP Statistics Practice Tests at the end of each unit/part, and Cumulative AP Practice Tests after Units 3, 5, 7, and 9.

- **Maintain the Best Teacher Support.** We are the only AP Statistics textbook to have a wrap-around annotated Teacher's Edition (TE). The TE for *TPS 7e* has even more Teaching Tips, AP exam common errors, and other just-in-time advice. As in previous editions, all of the alternate examples in the TE (one for each example in the student edition) are available in Word format for easy importing into class notes, PowerPoints, or assessments. The TE also includes multiple pacing guides, suggested assignments, and many other features that are helpful to both new and experienced teachers. Other resources include a solutions manual with fully worked out solutions, model quizzes and tests for each section and unit, a test bank with items tagged by learning target, professional development videos, and much more.
- **Expand Media Resources.** Our team of veteran AP readers has created hundreds of student-facing videos, one for each example, linked exercise, tech corner, and chapter review exercise (new since *TPS 4e*). We also have an enhanced e-book, available in our brand-new Achieve digital platform. This platform also includes a completely revised and improved online homework system. The assessment platform now includes all Check Your Understanding questions—perfect for reading checks or exit tickets. Pre-built homework assignments are perfectly aligned to the pacing guide provided in the TE. Questions are in a variety of formats, and each includes specific, easy-to-understand feedback and guidance for students.
- **Refresh Contexts in Examples and Exercises.** We purposely chose contexts for the examples and exercises to pique student's interest. Well over 50% of the contexts in *TPS 7e* are new or updated from *TPS 4e*.

Please let us know if you have any questions for Daren and Josh, need any other resources, or would like a copy of *TPS 7e*. Please email your local rep or hsmarketing@bfwpub.com.