



**OAKLAND UNIFIED  
SCHOOL DISTRICT**

*Community Schools, Thriving Students*

# High School Math Instructional Materials Adoption



Academics & Instructional Innovation

May 13, 2020

[www.ousd.org](http://www.ousd.org)



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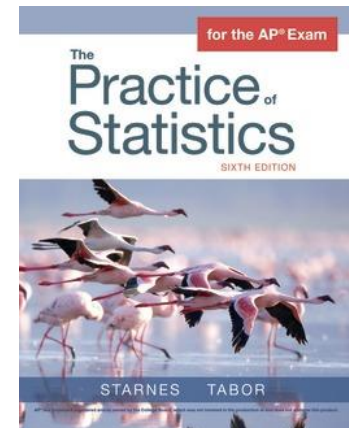
# Action Requested

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Approve adoption of  
**Illustrative Mathematics**  
**(IM)** for Algebra 1, Geometry,  
and Algebra 2



Approve adoption of  
**The Practice of**  
**Statistics 6th edition**  
for AP Statistics





# Background

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- Current math materials were adopted in 2009, aligned to the then-current Mathematics Content Standards for California Public Schools. In 2010, California adopted the Common Core State Standards.
- Development of the OUSD Core Curriculum began in 2011, when the Common Core State Standards had been the adopted standards of the state for a little more than a year and the state mathematics framework had not yet been written. The curricular materials commercially available at the time did not yet substantially align to the new standards and the shifts in learning and teaching that those standards represented.



# Selection Process: 2018-2020

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- **Adoption Committee:** Spring 2019 - the committee recommended that we pilot IM and CPM for one year. Spring 2020 - the committee recommended that we adopt IM for 2020-21.
- **Piloting:** 26 teachers representing 8 high schools piloted at least one full unit of each curriculum program.
- **Additional stakeholder input:** ELLMA, community members, principals, and content experts
- The final deliberation brought together adoption committee members to weigh all feedback collected, and come to consensus on recommendation
- [HS Math Curriculum Pilot Memo](#) | [HS Math Curriculum Adoption Memo](#)
- [Detailed Timeline of Process](#)

# Strengths of IM

- **Common Core Aligned Rigorous Tasks**

- Teacher materials integrate lesson-specific questioning suggestions and moves to encourage broader engagement in discussion
- Curriculum offers a balance of mathematical rigor, equally attending to procedural fluency, conceptual understanding, and application

- **Lesson and Unit Design**

- Lesson design offers a predictable daily structure grounded in a daily learning goal that supports students to develop mathematical understanding over the course of the lesson
- Task structure encourages student interaction and sense-making

- **Support for differentiation**

- Consistent routines integrated into lessons to support English Learners
- Lesson-specific and activity-specific modifications and suggestions called out for English learners and students with specific learning needs (visual support, ADHD, etc.)

- **Usability**

- For students
  - Student workbooks provide an organized place for students to record their mathematical thinking
  - Built in applets to support learning and understanding
  - Online materials are easy for students and families to access and understand
- For teachers
  - Explanation of mathematics content included in each unit as well as the lessons.
  - Each activity includes anticipated responses and common misconceptions.

Alignment with the Middle School adoption of IM

# Proposed Supports

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- This summer, train teachers through a 5-part series of 1-hr virtual trainings.
- Ongoing professional learning, facilitated in-house by our own certified trainers, to make sense of how to use the digital and print materials, differentiate, and get support around pacing.
- Support High School Math Teachers to lead PLCs at their sites to facilitate collaboration around the implementation of new curriculum.
- In year 1, provide classroom kits of math manipulatives to support every student to access the mathematics.



# Fiscal Impact of Adoption

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## For IM:

\$258,792.81 purchase for 2020-21 (includes tax and shipping)

Contract includes:

- Print and digital teacher and student materials
- Classroom kits of math manipulatives

## For The Practice of Statistics 6th edition:

\$54,947.15 purchase for 2020-21 (includes tax and shipping)

Contract includes:

- Print and digital teacher and student materials

# Price Comparisons to other Finalist Curricula

	<b>IM</b>	Cost of using local print shop rather than purchasing IM workbooks	<b>CPM</b>
Student Print Materials	\$190,686.30	\$18,000,000	\$444,000
Student Digital Materials	FREE	n/a	included with print materials
Teacher Print Materials	\$8,033.70	not possible	\$31,500
Teacher Digital Materials	FREE	n/a	included with print materials
Classroom Kits	\$20,614.50 (Full kit of materials)	n/a	\$12,600 (Algebra Tiles and Geometry Mirrors)
PD	FREE (in-house certified trainers)	n/a	included with print materials
<b>TOTAL</b> (before tax & shipping)	<b>\$219,334.50</b>	<b>\$18,000,000</b>	<b>\$488,100</b>



# EVERY STUDENT THRIVES!



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1000 Broadway, Suite 300, Oakland, CA 94607

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Contact us for additional information [Academics and Instructional Innovation]  
Phone: 510.879.8200 | Email: [info@ousd.org](mailto:info@ousd.org)