

# OFFICE OF ACADEMICS DIVISION OF INSTRUCTION & INTERVENTIONS

## Instructional Materials Plan 2016-17

### School Board Hearing

June 15, 2016

**Presented by:**

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**BROWARD COUNTY PUBLIC SCHOOLS**

# INSTRUCTIONAL MATERIALS NEW LEGISLATION:

Florida Statute 1006.40 (5) requires the following steps in approving recommended instructional materials for use district-wide.

- Public online access to student editions of the District recommended instructional materials.
- An open, noticed school board hearing during which the public may comment on the recommended instructional materials.
- An open, noticed public meeting to approve an annual instructional materials plan to identify any instructional materials that will be purchased through the district school board instructional materials review process.



# Instructional Materials Plan 2016-17

## Mathematic Secondary Adoption:

- Advanced Topics in Mathematics
- AP Statistics
- Analysis of Functions/ Trigonometry
- Calculus Honors, AP Calculus AB & BC
- Honors Probability & Statistics
- Liberal Arts Math I
- Liberal Arts Math II
- Mathematics for College Readiness
- Pre-calculus



# Instructional Materials Plan 2016-17

## Communication Plan:

### Pre-Adoption

- Schools made aware of District's intent to adopt the secondary mathematics textbooks
- Principals asked to nominate teachers for reviews
- Adoption committees formed , review begins and recommendations are made
- Notice in newspaper and on homepage of BEEP notifying teachers and parents of recommended instructional materials

### Post-Adoption:

- Inform public (via website) and schools of SBBC decision
- Communicate Summer and Fall professional development plan via email, department chairs, school administration, and

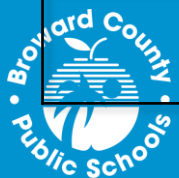
MyLearningPlan



# Instructional Materials Plan 2016-17

## District Wide: Mathematics

Adoption	Grade Levels	Number of Students	Cost of Instructional Materials
Advanced Topics in Mathematics	9-12	2235	\$388,823
AP Calculus AB, BC, Calculus Honors	9-12	2420	\$459,800
AP Statistics	9-12	1071	\$151,011
Honors Probability and Statistics	9-12	1981	\$334,729
Liberal Arts Math I	9-12	6955	\$1,154,321
Liberal Arts Math II	9-12	3244	\$291,960
Mathematics for College Readiness	9-12	4584	\$710,382
Pre-Calculus	9-12	4304	\$748,766
Trigonometry/Analysis of Functions	9-12	1893	\$329,325
		APPROXIMATE TOTAL	<b>\$4,569,117</b>

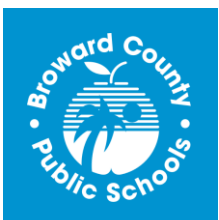
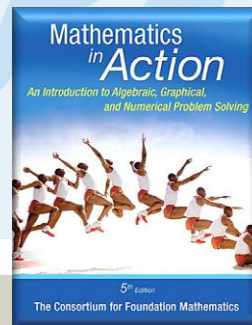


# Instructional Materials Plan 2016-2017

## **Advanced Topics in Mathematics (Grades 9-12)**

*Mathematics in Action, An Introduction to Algebraic, Graphical, and Numerical Problem Solving, Blitzer, 5th Edition, Pearson*

- Strongest alignment to Advanced Topics Florida Standards
- Offers extensions in high level areas
- Provides students with opportunities to engage in real life situations
- Differentiated instruction to meet individual student's needs
- Digital material is interactive and allows for instruction, assessment review, and enrichment of content for all students

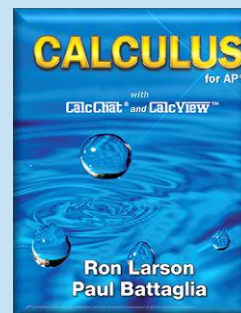


# Instructional Materials Plan 2016-17

## Calculus Honors/AP Calculus AB & BC (Grades 9-12)

*Calculus for AP, 1e, Ron Larson, 2017*

Cengage



- A more complete platform
- Outstanding book
- Web assigned is an inexpensive tool that is effective in encouraging students
- Integration and flow of content was excellent
- Provides differentiated instruction to meet individual student's needs
- Provides opportunities for students to engage in real life situations
- Online/Web-based Teacher/Student Edition with Single Sign-on

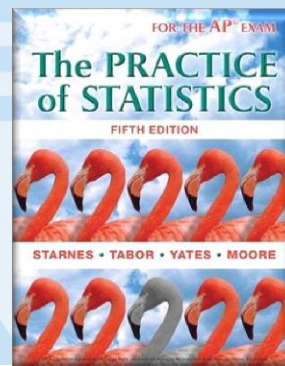


# Instructional Materials Plan 2016-17

## AP Statistics (Grades 9-12)

*The Practice of Statistics 5e, 2015, Bedford, Freeman, and Worth*

- Strongest alignment to Mathematics Florida Standards
- Differentiated instruction to meet individual student's needs.
- Digital material is interactive and allows for instruction, assessment, review, and enrichment of content for all students
- Rigor appropriate to student level



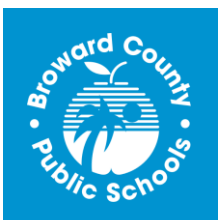
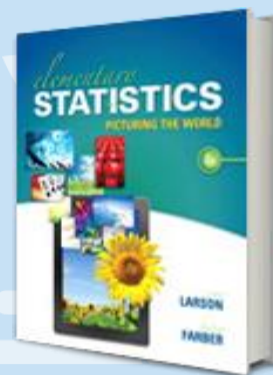


# Instructional Materials Plan 2016-17

## Honors Probability & Statistics

*Elementary Statistics: Picturing the World, 6th Edition,*  
©2015, Larson, Farber, Pearson

- Content well organized
- Correlation to attached booklet
- Real-world application
- Rigor appropriate to student level
- MathXL is bundled and enhances presentation of textbook
- Differentiated instruction to meet individual student's needs
- Digital material is interactive and allows for instruction, assessment, review, and enrichment of content for all students.

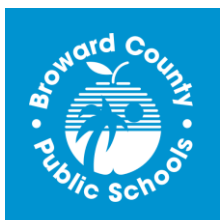
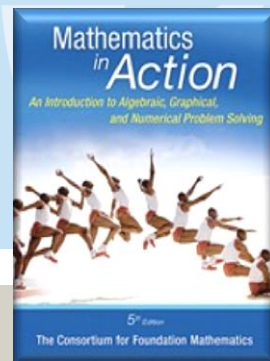


# Instructional Materials Plan 2016-17

## Liberal Art Mathematics I

*Mathematics in Action, An Introduction to Algebraic, Graphical, and Numerical Problem Solving, 5th Edition, ©2016, The Consortium for Foundation Mathematics, Pearson, Pearson*

- Content well organized
- Real-world application
- MathXL is an added to textbook
- Differentiated instruction to meet individual student's needs
- Digital material is interactive and allows for instruction, assessment, review, and enrichment of content for all students.



# Instructional Materials Plan 2016-17

## Liberal Art Mathematics II

*ALEKS, (Assessment and Learning in knowledge Spaces), 2015,  
McGraw Hill Education*

- An artificial intelligent (AI) assessment and learning system
- Rigor appropriate to student level
- One-on-one instruction, 24/7
- Differentiated instruction to meet individual student's needs
- Digital material is interactive and allows for instruction, assessment, review, and enrichment of content for all students.



**ALEKS**<sup>®</sup>

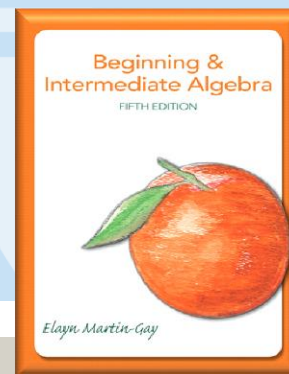


# Instructional Materials Plan 2016-17

## Mathematics for College Readiness

*Intermediate Algebra: Math for College Readiness, Florida Edition, ©2013, Martin-Gay, Pearson*

- MathXL –great interactive homework tool
- Online books/videos/animations are great resources
- Reinforces the material over and over again
- Good correlation with the college readiness curriculum
- Digital material is interactive and allows for instruction, assessment, review, and enrichment of content for all students.

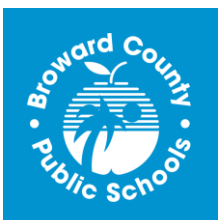
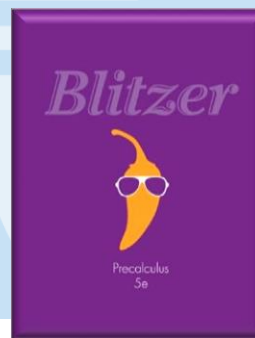


# Instructional Materials Plan 2016-17

## Pre-Calculus Honors

*Pre-calculus, 5th Edition, ©2014, Blitzer, Pearson*

- MathXL – interactive homework tool
- Online books/videos/animations are great resources
- Can assign activities through the Web
- Excellent textbook with accurate information
- Digital material is interactive and allows for instruction, assessment, review, and enrichment of content for all students
- Real world applications



# Instructional Materials Plan 2016-17

## **Analysis of Functions/Trigonometry**

*Algebra and Trigonometry, 5th Edition, ©2014, Blitzer, Pearson*

- Good for both semesters of the two different courses
- Mid-chapter check points offering review of high number of objectives
- Preview problems with section stories for chapter openers are great
- Digital material is interactive and allows for instruction, assessment, review, and enrichment of content for all students
- Challenging for strong math students without leaving weaker students behind



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## **Office of Academics**

### Division of Instruction and Interventions

### School Board Hearing – June 15, 2016

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#### **The School Board of Broward County, Florida**

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**Robert W. Runcie, Superintendent of Schools**

