



**BOE/CO
Friday Packet
December 10, 2021**

Upcoming Meeting Dates

K-12 Math Curriculum Presentation

12-10-2021 Business Course Memo re Accounting II Curriculum Revision



Upcoming Board of Education Meeting Dates **2021 and 2022**

December 14	6:00 PM	Special Meeting/Executive Session Superintendent's Conference Room
	7:30 PM	Regular Meeting CO Board Room and Virtual 501 Kings Hwy East
January 4	5:00 PM	Policy Committee Meeting Superintendent Conference Room 501 Kings Hwy East
January 5	3:30 PM	Finance Committee Meeting Superintendent Conference Room 501 Kings Hwy East
January 11	7:30 PM	Regular Meeting/Budget Presentation CO Board Room and Virtual 501 Kings Hwy East
January 18	7:30 PM	Special Meeting/Budget CO Board Room and Virtual 501 Kings Hwy East
January 25	7:30 PM	Special Meeting/Budget CO Board Room and Virtual 501 Kings Hwy East
January 27 <i>Thursday</i>	7:30 PM	Regular Meeting/Budget Vote CO Board Room and Virtual 501 Kings Hwy East



FAIRFIELD PUBLIC SCHOOLS

K-12 Mathematics Curriculum Review/Update

Fairfield Public Schools Board of Education
December 14, 2021

Guiding Questions





- 1) What was the process used to review & revise the curriculum/resources?
- 2) What are the issues with the current curriculum and supporting resources?
- 3) What are the proposed changes?
- 4) What are the budgetary implications of the curriculum and resource changes?



Top 10 skills of 2025

-  Analytical thinking and innovation
-  Active learning and learning strategies
-  Complex problem-solving
-  Critical thinking and analysis
-  Creativity, originality and initiative
-  Leadership and social influence
-  Technology use, monitoring and control
-  Technology design and programming
-  Resilience, stress tolerance and flexibility
-  Reasoning, problem-solving and ideation

Type of skill

-  Problem-solving
-  Self-management
-  Working with people
-  Technology use and development

Source: Future of Jobs Report 2020, World Economic Forum.

The Future of Jobs



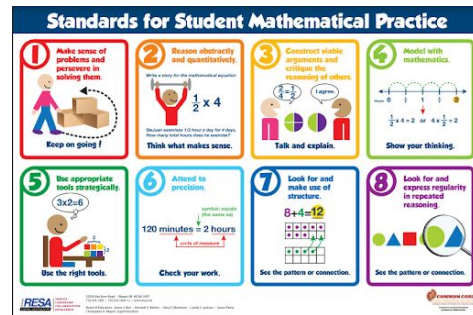
FPS Vision of a Graduate

- Innovators
- Communicators
- Collaborators
- Critical Thinkers
- Responsible Citizens
- Goal Directed- Resilient Learners

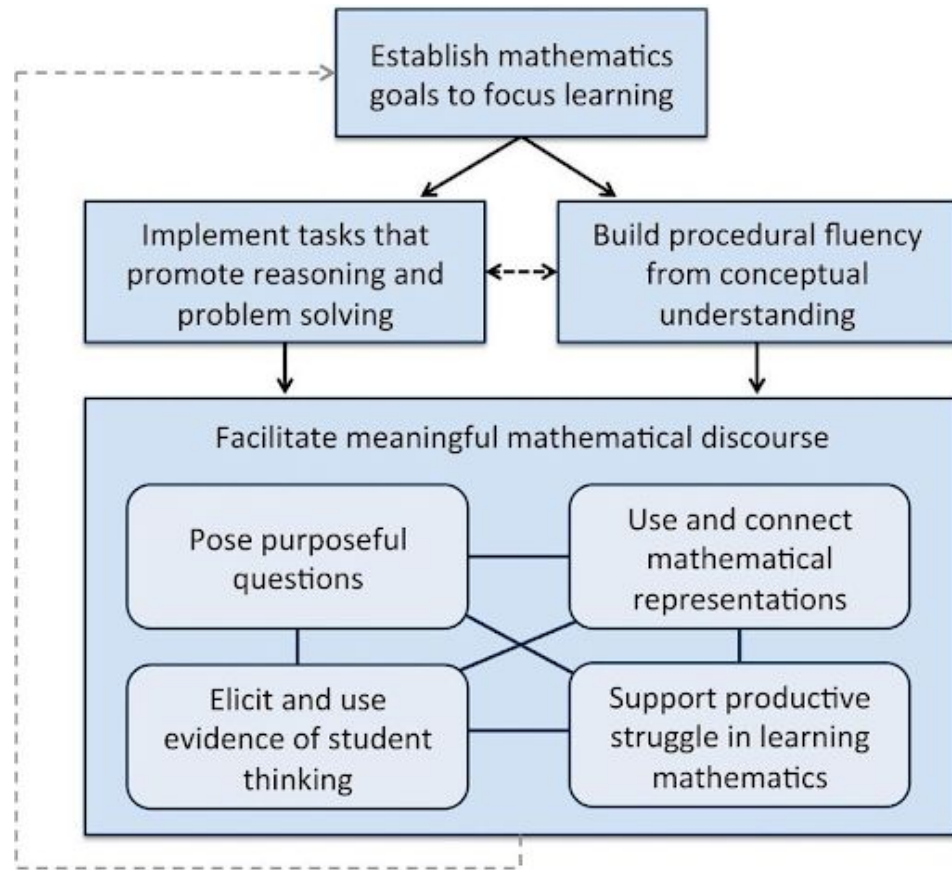


Math Practice Standards

- Make sense of problems and persevere in solving them.
- Reason abstractly and quantitatively.
- Construct viable arguments and critique the reasoning of others.
- Model with mathematics.
- Use appropriate tools strategically.
- Attend to precision.
- Look for and make use of structure.
- Look for and express regularity in repeated reasoning.



Equitable Mathematics Instructional Practices



What was the process used to review & revise the curriculum/resources?

Month	Activity
September 2019	Steering Committee Initial Meeting
November 2019	BOE Data Presentation
February 2020	Steering Committee Subgroup Work
March 2020 - March 2021	COVID-19 Pause
March 2021- May 2021	Steering Committee Conclusions/Recommendations
May - November 2021	ES review of additional challenge resources ES Revision of units for greater emphasis on some standards MS & HS resource review and selection
December 2021	BOE Presentation



What are the issues to the current curriculum and supporting resources?

issue.

Elementary

- Greater emphasis needed on Mathematical practices, Vision of the Graduate, and Academic Expectations
- Instructional resources are meeting expectations; however, there is an opportunity to improve extension or challenge problems for students.
- Trends in PK-5 grade levels reveal a need for greater instructional emphasis on some standards.

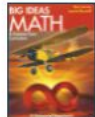
Secondary

- Greater emphasis needed on Mathematical practices, Vision of the Graduate, and Academic Expectations
- Instructional resources not meeting expectations
- Need for more elective options in the high school



Big Ideas Math (2013)

Published By: Big Ideas Learning, LLC | Date Published: 2015/02/13 | [EdReports Review Tool v1](#) | [View These Reports](#)



GRADE LEVEL	FOCUS & COHERENCE	RIGOR & MATHEMATICAL PRACTICES	ALIGNMENT RATING	USABILITY RATING
Sixth Grade	5/14	N/A	Does Not Meet Expectations	N/A
Seventh Grade	6/14	N/A	Does Not Meet Expectations	N/A
Eighth Grade	10/14	11/18	Partially Meets Expectations	N/A



Pearson Integrated (2014)

Published By: Savvas Learning Company (f/k/a Pearson) | Date Published: 2016/06/01 | [EdReports Review Tool v1](#) | [View These Reports](#)



GRADE LEVEL	FOCUS & COHERENCE	RIGOR & MATHEMATICAL PRACTICES	ALIGNMENT RATING	USABILITY RATING
High School	6/18	N/A	Does Not Meet Expectations	N/A



What are the proposed changes?

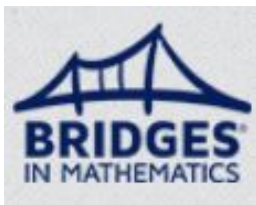


Elementary

- ES Curricula will remain consistent with minimal changes.
- Maintain current resources, Bridges 2nd edition and FPS units.
- Additional supplemental resources will be added to provide enrichment.
- Revision of units to place greater emphasis on some standards and enrichment
- Purchase PK Bridges 2nd ed.
- Focus on professional development to address needs around equity and vision of a graduate.

Middle School

- MS Curricula will remain consistent with minimal changes
- Adopt EdGems instructional resource for MS course sequence
- Focus on professional development to address needs around equity and vision of a graduate.





GRADE LEVEL	FOCUS & COHERENCE	RIGOR & MATHEMATICAL PRACTICES	ALIGNMENT RATING	USABILITY RATING
Kindergarten	13/14	16/18	Meets Expectations	37/38
First Grade	13/14	17/18	Meets Expectations	37/38

EdGems Math (2018)



GRADE LEVEL	FOCUS & COHERENCE	RIGOR & MATHEMATICAL PRACTICES	ALIGNMENT RATING	USABILITY RATING
Second Grade	13/14			
Third Grade	12/14			
Fourth Grade	12/14			
Fifth Grade	12/14			
Sixth Grade	13/14	17/18	Meets Expectations	32/38
Seventh Grade	13/14	17/18	Meets Expectations	32/38
Eighth Grade	13/14	17/18	Meets Expectations	32/38

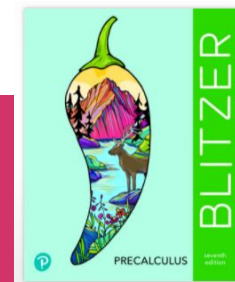




What are the proposed changes?

High School

- Updated Algebra-1, Geometry, Algebra-2 & Precalculus curricula for better content alignment
- No changes to Calculus, AP Curricula (AB/BC & Statistics), Probability & Statistics, Financial Algebra, Multivariable Calculus
- Remove Trigonometry and Math Modeling courses
- Added Applied Mathematics elective courses
 - Modern Mathematics
 - Transition to College Math
 - Advanced Mathematical Decision Making
- Adopt new instructional resources
 - Illustrative Mathematics Algebra-1, Geometry, Algebra-2 instructional resource
 - Blitzer Precalculus instructional resource (Pearson)
 - Modern Mathematics instructional resource (Pearson)
 - Transition to College Mathematics instructional resource (Agile Mind)
 - Advanced Mathematical Decision Making instructional resource



McGraw-Hill Illustrative Mathematics AGA (2021)

Published By: McGraw-Hill Education | Date Published: 2021/05/20 | *EdReports Review Tool v1.5* | [View These Reports](#)



GRADE
LEVEL

High School

FOCUS &
COHERENCE

18/18

RIGOR &
MATHEMATICAL
PRACTICES

16/16

ALIGNMENT RATING

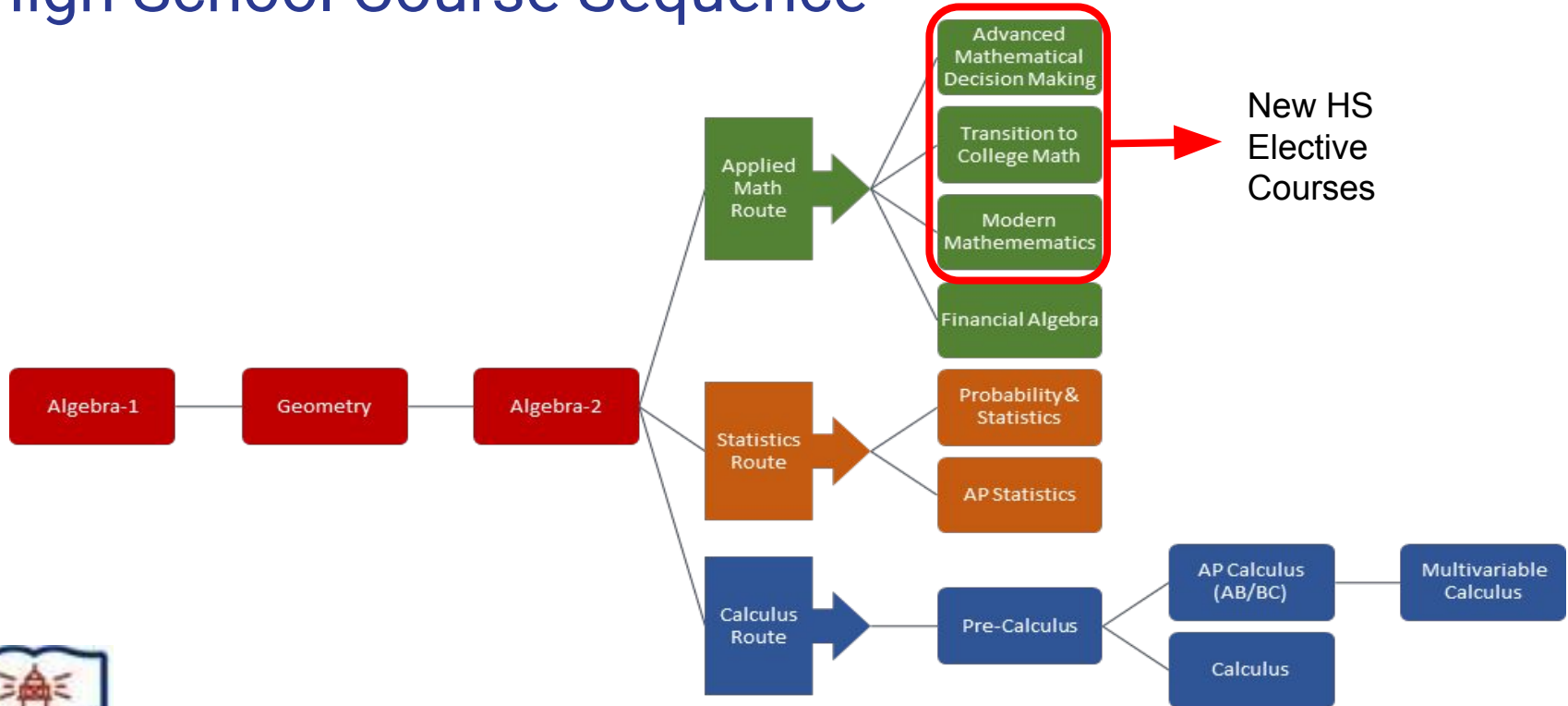
Meets Expectations

USABILITY RATING

27/27



High School Course Sequence

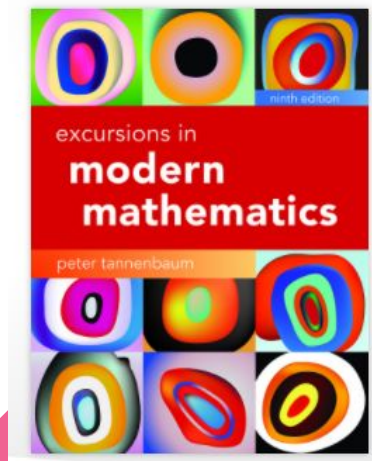


Modern Mathematics



Course Purpose:

- An application-based course for students looking to head into the liberal-arts, political science fields
- Topics Include:
 - Mathematics of Social Choice
 - Elections, Fair-Division
 - Management Science
 - Paths, Networks, and Scheduling
 - Shape and Form
 - Symmetry & Fractal Geometry
- Resource: *Excursions in Modern Mathematics* (Pearson)



Transition to College Mathematics (TCM)



Course Purpose:

- Provide support to students who may not have met the college readiness expectations
- Built-in Social-Emotional Standards
- Resources developed through the University of Texas - Dana Center and Agile Mind

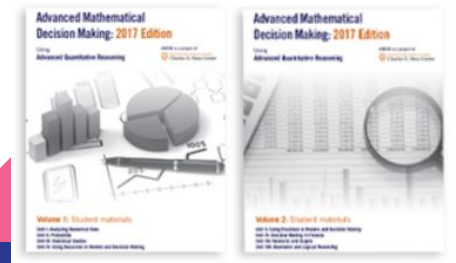


Advanced Mathematical Decision Making (AMDM)



Course Purpose:

- Applied Math Course to provide students with an opportunity to use mathematics to make effective decisions.
- Problem-based course
- Topics Include:
 - *statistical information and summaries, methods of designing and conducting statistical studies, modeling of data, basic financial decisions, and use network models for making informed decisions.*
- Resources developed through the University of Texas - Dana Center



What are the budgetary implications of the curriculum and resource changes?

Elementary

- No purchase of new elementary primary math resource
- \$20,136 for additional challenge support resources
- \$15,980 unit revisions and updates
- \$11,800 for professional learning support for teachers

Secondary

- \$190,000 for EdGems Resource (6 year)
- \$333,000 for Algebra-1, Geometry, Algebra-2 (6 year)
- **\$115,000** for Blitzer Precalculus (6 year)
- **\$22,000** for Modern Math Resource (6 year)
- \$8,400 for Transition to College Math Resource (6 year)
- \$3,000 for Advanced Math Decision Making Resource
- \$50,000 Implementation Work and Professional Development



FPS Vision of a Graduate

- Innovators
- Communicators
- Collaborators
- Critical Thinkers
- Responsible Citizens
- Goal Directed- Resilient Learners



Thank you

xxx

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Beth Greer

Pam Williams

Robyn Walters

Amy Lacey

Julie Sherwood

Olivia Zaleski

Tara Bainer

Alex Rodriguez

Molly Farrell

Patti Day

Laura Kelly

Joanne Bachleda

Jared Russell

Victor Mirrer

Meghan Parker

Katie Poole

Tina Brown

Dana Boggiano

Kasey Sabetta

Basia Nartowicz

Dave Doherty

Sara Singer

Mini Zacchia

Betsy Cipu

Brendan Hamilton

Michelle Formato

Christina Piazza

Vinny Camera

Barb Cohen

Sean Colley

Caitlyn Viesto

Atul Sajan

Brittany Collins

Michelle Taddei

Matt Tomei

Lisa Shemesh

Ashley Hall

Amy Vernon

Tracey Mary

Jillian Combis

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 Curriculum, and Assessment
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To: Members of the Fairfield Board of Education

From: Dr. James Zavodjancik, Executive Director of Instruction, Curriculum, and Assessment;
 Mrs. Robin Terwilliger, Business Department Curriculum Coordinator

Date: December 10, 2021

RE: Accounting II Curriculum Revisions

The Fairfield Public Schools business faculty is recommending that Accounting II be revised from a year long course to a semester course. The last time the course was created and submitted for approval was nearly two decades ago. During that time period, students' technology comfortability and usage has expanded. All instructional curriculum topics no longer need as much time to complete as a result of technology integration. Specifically, Excel and Quickbooks are harnessed to complete many of the accounting content and skills in the course.

In addition, the following topics, skills, and units were altered in the proposed Accounting II course:

Original Accounting II	Proposed Accounting II
<ul style="list-style-type: none"> Units on Accounting for Notes Payable and Notes Receivables 	<ul style="list-style-type: none"> These units are now covered in Accounting I. They will be covered as part of the review at the beginning of course but no longer require instruction in Accounting II. Estimated time saved is approximately 5-6 weeks of instruction.
<ul style="list-style-type: none"> Unit on Accounting for Corporations: organization, capital stock, taxes, dividends, bonds, and retained earnings 	<ul style="list-style-type: none"> Corporations are still included but will be covered more broadly. We will cover corporate organization, capital stock and taxation, but we will no longer study in detail bonds, dividends, and retained earnings. Corporate accounting is 5 chapters in our textbook. Given our pacing, we usually cover 3-4 chapters a grading term. Weeks of instruction are reduced as a result of the overview versus detail change in corporate accounting. Estimated time saved is about 10 weeks.



**FAIRFIELD
PUBLIC SCHOOLS**

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Curriculum, and Assessment

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| <ul style="list-style-type: none">• Included instructional time to introduce students to technology of computer hardware and software. | <ul style="list-style-type: none">• Instructional time on use of computer is no longer necessary as students are comfortable using computers daily.• There will be instruction on specific software, but this will only require approximately 1 class of instruction before it is embedded into accounting practice problems and assessments.• Estimated time saved is about 1 week. |
|--|--|