



FORRESTON JUNIOR/SENIOR HIGH SCHOOL

PRINCIPAL
Travis J. Heinz

Executive Brief

TJH
To: Superintendent Smith
From: Travis Heinz
Date: April 10, 2019
RE: Math Curriculum Adoption enVision Math
CC: BOE

Forreston High School Mathematics Teachers spent the 2017-18 and 2018-19 school years reviewing different curriculum adoption options for High School Math. Please find below a summary of that review, along with a recommendation by Forreston High School Mathematics Teachers for a formal adoption with anticipated costs. If you have any questions/concerns please feel free to contact me.

Timeline

- Reviewed Materials and Compared to RCD Units/Priority Standards 2017-18
- Reviewed what other area schools were using for Math Curriculum 2018-19
- Met with entire FJSHS Department to Identify Key Needs/Wants 2018-19
- Recommendation for Adoption of enVision Math April 17, 2019
- BOE Approval of Adoption of enVision Math May 15, 2019
- Anticipated Ordering of Materials for enVision Math June 2019

Recommendation

Adopt enVision Math starting in the 2019-2020 school year for Algebra I, Algebra II, and Geometry.

Why enVision?

- Very interactive and student driven lesson with built in technology including:
 - Interactive Lessons powered by Desmos embedded in each lesson to provide visual and interactive learning
 - Mathematical Modeling in 3 Acts-available to engage students in modeling to develop conclusions for reality based problems
 - Individual learning pathway

- Individual study plans-helps students fill in the gaps in prerequisite knowledge
- MathXL-auto-graded assignments in the lesson to provide instant feedback with learning aids to help students any time
- Adaptive practice-gives students a chance to practice concepts to work towards mastery or advanced students the opportunity to stay engaged
- Virtual video tutorials-allow students the ability to review every lesson
- The program allows us to create multiple assessments based on specific standards. This will help in our transition to standards based reporting.
- Lessons are linked to both Content standards and Mathematical Practice Standards
- Online allows for differentiation which can include additional examples
- Students will be able to access the materials online and offline
- enVision STEM projects for each unit
- Application-examples show students how the content can be applied to solve current real-world problems
- Part of the practice problems include assessment practice-this includes one ACT/SAT practice problem per lesson
- Can access student or class data to show standards covered and mastered as well as overall progress.
- There is profession development available both on-site and online.
 - The on-site is six hours but there is a cost associated with it.
 - There are several prerecorded webinars online that can help answer questions.

Why not Eureka?

- Aligned to PARCC and PARCC like tests as opposed to SAT
- Available assessment materials are not conducive to creating multiple retake opportunities
- Fits very well with block scheduling, so this works well for Jr. High classes but not one period high school schedule

Why not eMathInstruction?

- It is currently used in Algebra I and Algebra II
- Videos are not interactive and most are 20-30 minutes long
- Not very student directed
- No authentic student interaction

Anticipated Costs

Algebra I:

- 6 year digital courseware access: \$77.97 per student
 - Total number of subscriptions: 55
 - Digital cost: \$4,288.35
- 5 Student Editions: Purchased used about \$10.00 per book
- Teaching Resources: \$610.91
 - Includes-2 volume Common Core Teacher's Editions; Teacher's Edition Program Overview; Assessment Resources; all digital instruction and assessment resources

including Teaching Resource Masters, ExamView, Answers and Solutions with student subscription, assessment resources, and 1 student companion.

- If needed additional digital subscriptions per year: \$24.47
- Algebra I total cost: \$4,949.26

Geometry

- 6 year digital courseware access: \$77.97 per student
 - Total number of subscriptions: 55
 - Digital cost: \$4,288.35
- 5 Student Editions: Purchased used about \$20.00 per book
- Teaching Resources: \$610.91
- Geometry total cost: \$4999.26

Algebra II

- 6 year digital courseware access: \$77.97 per student
 - Total number of subscriptions: 55
 - Digital cost: \$4,288.35
- 5 Student Editions: Purchased used about \$35.00 per book
- Teaching Resources: \$610.91
- Algebra II total cost: \$5,074.26

TOTAL COST: \$15,022.78