ARHS Math Curriculum Review Presentation

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Amherst-Pelham Regional High School
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Agenda

1. Secondary Math Objectives
2. Traditional or Integrated
3. Curriculum review process
4. Do some math!
Math (K-12)

Provide a **rigorous, meaningful, coordinated, standards-based** and **engaging** mathematics curriculum for **all** students.

Have as many students as possible **prepared to take and succeed** in **advanced HS math and science courses**.

**What might this look like?**

- Strengthen K-12 math program and devote resources to maximizing the number of students **succeeding in advanced math courses** including Calculus.
- Develop a strong school and district culture about the importance of developing **strong math skills** and **succeeding** in all math courses.
Model for Supporting High Math Achievement

- Extended **window of opportunity** for movement between courses.
- **Aligned** and interrelated courses
- **Intervention** aligned with core program
Courses in higher level mathematics: Precalculus, Calculus*, Advanced Statistics, Discrete Mathematics, Advanced Quantitative Reasoning, or courses designed for career technical programs of study.

Traditional Pathway
Typical in U.S.

Integrated Pathway
Typical outside of U.S.
<table>
<thead>
<tr>
<th>Course Sequence</th>
<th>Traditional</th>
<th>Integrated</th>
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<tbody>
<tr>
<td><strong>Calculus AB/BC or Stats</strong></td>
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<tr>
<td>Pre-Calculus or Trig</td>
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<td>Algebra 2 CP/H</td>
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<tr>
<td>Geometry CP/H</td>
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<td>Algebra 8, 8+</td>
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Review Process

• Determined curricula to review
  – Contacted districts

• Established curriculum review criteria
  – Rigor
  – Standards for Math Practice
  – Differentiation

• Norming department practice around the Standards for Math practice

• Learned about each Curriculum – at least 1 day

• Visited area schools

• Contact STEM Professors and College Admissions departments
Next Steps in Review Process

• Review comments gathered tonight
• Department meets to determine which program best meets established criteria
• Upcoming Family Nights
  – 12/17: Discuss potential course names/sequence
  – 1/14: Discuss recommended course names/sequence
Tonight

• Explore the curriculums we are reviewing
  – Center for Mathematics Education Project
  – College Preparatory Math
  – Core-Plus Math
  – Interactive Mathematics Program

• Rotation through the curriculum (15 min each)
  – Do some math
  – Give us your thoughts about the curriculums
Thank You