Advisory Council Update

• Creating a position statement of support for the pathways.
• Continue discussing equity
• Mapping out communication plans
Concise Definition of Rigor: Students use mathematical language to effectively communicate their strategies with clarity and precision. Students explain how, when and why their reasoning is appropriate, thereby answering the question, “How do we know?”

*They also have a chart that they made.*
Guidelines for ensuring rigor in courses.
Note: Districts may offer one or more courses.
Goal: Improve students’ mathematics achievement and attainment, especially in STEM related areas including computer science, by creating, developing and implementing relevant and coherent math pathways.

Outcome: Schools implement math pathways statewide thereby increasing student achievement and attainment.
Timeline

Fall 2020

- Course Development
- Apply for 2021 QR and DSF pilot (November).

Fall 2021

- Guidance about Algebra 2 equivalency courses and pathways is posted.
- QR and DSF are piloted.
- CSDM is pre-piloted.
- Apply for 2022 QR, DSF, and CSDM pilots (November).

Fall 2022

- Schools implement pathways and Algebra 2 equivalency courses.
- Pilots are expanded in phases across the state.
MMR Pilot

How do we ensure rigor is maintained?

Who will take this course?

Curriculum is being modified with target student in mind?

<table>
<thead>
<tr>
<th>Less linear functions and more advanced functions (college bound)</th>
<th>More advanced statistical concepts</th>
<th>Greater ACT/SAT alignment (college focus)</th>
<th>More financial lessons (career focus)</th>
<th>Integrate Excel Credential</th>
<th>Future Conversation: Align lessons to QR careers?</th>
</tr>
</thead>
</table>

Ohio Department of Education
### Selected Schools

<table>
<thead>
<tr>
<th>Typology</th>
<th>Rural</th>
<th>Small Town</th>
<th>Suburban</th>
<th>Urban</th>
<th>Other</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>NW</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>5</td>
<td>7</td>
<td>6</td>
</tr>
<tr>
<td>NE</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>C</td>
<td></td>
<td>2</td>
<td>1</td>
<td></td>
<td>4</td>
<td>9</td>
</tr>
<tr>
<td>SW</td>
<td>1</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>1</td>
<td>13</td>
</tr>
<tr>
<td>SE</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td></td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>5</td>
<td>5</td>
<td>4</td>
<td>8</td>
<td>3</td>
<td>47</td>
</tr>
</tbody>
</table>

| Total Schools | 10 | 12 | 10 | 11 | 4 |

**Summary**
- **Cohort 18**: 3 Schools
- **Cohort 19**: 17 Schools
- **Cohort 20**: 27 Schools
Where to Apply for QR Pilot?

Apply in November!

Data Science Foundations

The *Data Science Foundations* course is anticipating using a modified version of UCLA’s *Introduction to Data Science* (IDS) curriculum that is modified for Ohio’s students. It teaches students to reason with, and think critically about, data in all forms. The Ohio Learning Standards for Mathematics (OLS) relevant to data science are taught along with the data demands of good citizenship in the 21st century. Additionally, the course provides access to rigorous learning that fuses mathematics with computer science through the use of R/RStudio, an open-source programming language/environment that has long been the standard for academic statisticians and analysts in industry. The course directly addresses Ohio’s High School Statistics and Probability and Modeling standards.

Plan to Pilot Fall 2021
Where to Apply for Data Science Foundations Pilot?

Information Coming in November 2020!