Secondary Mathematics Curriculum Materials Update

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2013 – 2014

- Established grade level teams
- Reviewed 8th grade curriculum materials
- Introduce 8 Math Practices to all schools
### 2014-2015

- **Pilot Math Links for 8th grade**
- **Pilot envision for Middle School 6th grade (later adopted)**
- **Reviewed other curriculum materials for 7th grade – Algebra 2**
- **Selected two curriculums for each grade level to pilot during '15-'16**

### 2015 - 2016 Pilot Programs by School

<table>
<thead>
<tr>
<th></th>
<th>Cerro Villa</th>
<th>McPherson</th>
<th>Portola</th>
<th>Yorba</th>
<th>Canyon HS</th>
<th>CDS</th>
<th>El Modena HS</th>
<th>Orange HS</th>
<th>Richland HS</th>
<th>Villa Park HS</th>
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<tbody>
<tr>
<td>7th</td>
<td>Big Ideas</td>
<td>Digits</td>
<td>Big Ideas</td>
<td>Digits</td>
<td>Big Ideas</td>
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<td>7th Accelerated</td>
<td>Big Ideas</td>
<td>Digits</td>
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<td>8th</td>
<td>Math Links</td>
<td>Digits</td>
<td>Math Links</td>
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<td>Big Ideas</td>
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<tr>
<td>8th Algebra</td>
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<tr>
<td>Algebra 1</td>
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<td></td>
<td>SpringBoard</td>
<td>Big Ideas</td>
<td>Big Ideas</td>
<td>Big Ideas</td>
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<td>Geometry</td>
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<td>Big Ideas</td>
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<td>Big Ideas</td>
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<td>Algebra 2</td>
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<td></td>
<td></td>
<td>SpringBoard</td>
<td>Big Ideas</td>
<td>Big Ideas</td>
<td>Big Ideas</td>
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</tbody>
</table>
2015-2016

- Curriculum planning days before school
- Publisher training days before school
- November 3rd Publisher trainings
- Ongoing support with Math Instructional Specialists & Math Mentors

August – Present

- Instructional Specialists
  - Regular communication and meetings
- Math Mentors
  - Informal observations
  - Lesson Planning
  - Materials for all students and teachers
  - Team teaching lessons
  - Resource for teachers
  - Eyes and ears of the school
  - Monitor pacing issues

Established a discipline specific Haiku with curriculum resources
Next Steps

- Formalized survey to teachers before Winter Break
- Video lessons to be posted on Haiku for all teachers to see
- Organize a walk-through for teachers to see different curriculum
- Revisit Traditional versus Integrated high school curriculum
- Start the decision making process for adoption
TPACK, SAMR & Technology in the Classroom

How Familiar are you with TPACK & SAMR?
1= Little to no knowledge
2= Some knowledge
3= A fair amount of knowledge
4= A great amount of knowledge
5= Expert status!

How Do I Know What Technology to Use?
How do I elevate my use of technology in the classroom?

Consider the SAMR Model!
Let's Hear From You....

Go to Socrative.com
Click on Student Login
Enter the Room Code
69859903C
Complete the questions as they are sent to you.

Thank you!

Substitution
Augmentation
Modification
Redefinition
**Substitution**

Noetaking
Students take notes with a word processing tool (e.g., Microsoft Word).

**Augmentation**

Noetaking
Students take notes collaboratively (e.g., Google Docs, Padlet).

**Modification**

Noetaking
Students take their notes while screencasting and add their thought process through audio (e.g., Screencast-o-matic).
Redefinition

Notetaking
Students use web tools to create sketchnotes and publish on an online LMS.

SAMR Activity

4

Find a Group of 3!

S-A-M-R

- Review the learning activities on each card.
- Determine the SAMR level of each activity.
How Do You Do?

Substitution
Augmentation
Modification
Redefinition

Technology & SAMR

Think 1st:
Reflect on your past few lessons that incorporated technology.
Where would they be on the SAMR model?
SAMR Flow Chart
SAMR Classroom Learning Activity Rubric
SAMR in 120 Seconds

Thanks!

Any questions?

Credit:
Special thanks to all the people who made and released these awesome resources for free:
- Presentation template by SlidesCarnival
- Photographs by Unsplash
## TPACK Your Lesson

- **Content Knowledge**
  - The what!
  - The subject matter you are teaching.

- **Pedagogical Knowledge**
  - The how!
  - How are we going to make the content accessible by the way we present it to our students?
  - Teacher and instructional tools.
    - Direct instruction
    - Inquiry
    - Debate
    - Group Discussion
    - Modeling
    - Graphic Organizer
    - Etc.

- **Technological Knowledge**
  - The partner!
  - Selecting the appropriate technology.
  - What technology will we select to make the content more accessible for the students, while supporting the pedagogical strategies we identified will help students learn?
    - Chromebook
    - Google Drive
    - Videos
    - Etc.

- **“A” The Sweet Spot**
  - Do all three knowledge areas work together?
  - What else do you need to add to make this accessible and applicable to your students?

## SAMR Your Lesson

<table>
<thead>
<tr>
<th>Substitution: What would substitution look like in this lesson?</th>
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</thead>
<tbody>
<tr>
<td>Augmentation: What would augmentation look like in this lesson?</td>
</tr>
<tr>
<td>Modification: What would modification look like in this lesson?</td>
</tr>
<tr>
<td>Redefinition: What would redefinition look like in this lesson?</td>
</tr>
</tbody>
</table>

What SAMR level is appropriate for the students in this lesson?