Peer-to-Peer Support for Middle Grades Math

April 22, 2020
Why Are We Here Today?
Who Is Here to Support You?

• FL Department of Education
  • Bureau of Exceptional Education and Student Services
  • Bureau of Standards and Instructional Support
• FL Diagnostic & Learning Resources System (FDLRS)
• FL Inclusion Network (FIN)
• FL State Personnel Development Grant (SPDG)
• Problem Solving/Response to Intervention Project (PS/RtI)
  • Student Support and Academic Achievement Unit
  • Technology Learning Connections Unit
Who Is Here to Share/Learn?
What do you need immediate support with?

10. Distance learning strategies
9. Engagement/motivation
8. Supporting students that struggle
7. Supporting teachers with appropriate tools
6. Ideas for collaboration/grouping
5. Helping students to self-monitor
4. Math tools
3. Collecting data
2. Targeting IEP goals/accommodations
1. Differentiation
What is the biggest obstacle?

Distance learning strategies

Share a solution...
• Constant communication
• Online tutoring via Zoom
• Document camera
What is the biggest obstacle?

Engagement/Motivation

Share a solution...

- Parent contact/involvement
- Nearpod, jam board, drawing tablet
- Resources and tips to help them engage
- Google Slides
- Creating YouTube videos
- Encouragement, check-ins, and being available
- Screencastify
- Classcraft Behavior
What is the biggest obstacle?  
Supporting students that struggle

Share a solution...
- Giving extra examples
- Building relationships
- Creating math practice off of the computer (have students upload pictures, video, or work completed)
- Recording lessons
- IEP Accommodations
What is the biggest obstacle?

Supporting teachers with appropriate tools/Virtual grading practices

Share a solution...

- Using online tools such as quizizz, Gimkit, and IXL
- Teams or Schoology Conferences
- Microsoft Math Tools
- Checking for understanding using exit slips via Google Classroom
- Edmodo
What is the biggest obstacle?

Communication with parents and students

Share a solution...
- Remind
- Google Voice apps
- Google Hangouts
- Teams video calls
What is the biggest obstacle?
Technology/tools for concepts

Share a solution...
- Geogebra
- Desmos
- Studytracks
- Mathshare-Utilizing district tools (Learning Ally/Bookshare)
What is the biggest obstacle?
Differentiation

Share a solution...
- Relevant grouping
- Breakout rooms in Zoom
What is the biggest obstacle? Opportunities for conceptual understanding/hands-on

Share a solution...

- Finding resources that allow students to work with manipulatives electronically to develop a deeper conceptual understanding
  - National Library for Virtual Manipulatives
  - Illuminations – NCTM
- Visuals (use camera on the computer so the student can see problems worked out)
What is the biggest obstacle? 

Time

Share a solution...

• Creating scheduled chat time on MS Teams
• Flexibility
  • Example: 4 days/week with students; 1 day/week parent contact/grading/planning
What is the biggest obstacle?  
*Students completing work*

Share a solution…
- Self-monitoring
- Emailing/Google check-in sheets/Remind
Strategies and Resources
Designing Distance Learning

• Be flexible, creative and have fun
• Create content with access in mind
  • Allow think time and share-outs
  • Include searchable PDFs, text with audio, captions, etc.
• Consider students’ equitable access to technology
• Create consistency and routine within the digital classroom
• Challenge growth
• Apply UDL principles
• Consider the socioemotional well-being of students
  • Express care

https://greatlakesequity.org/covid-19-pandemic-resources-support

www.FLDOE.org
Bring #mathoutside

- Challenge students to find and think about math outside, and inside, their house
  - Ask them what do they notice and what do they wonder; can they determine their wonderings
  - Have them share out during your virtual classes

- Example: Have a student video themself dribbling a basketball.
  - Grade 6: Can they determine the rate as which they dribble?
  - Grade 8: If you plotted the rates at which one dribbles a basketball, does it have a linear fit?
Florida STEAMposium

https://www.floridasteamposium.org/educator_resources.php#menu1

- Resource Webinars
  - Collection of webinars that provide resources and support for educators and parents

- Resources from Districts
  - Collection of resources from the FDOE and districts within Florida

- Resources from STEAMposium partners
  - Resources from our various partners

*The Florida STEAMposium is not endorsing a specific activity, strategy, organization or resource. As many of these resources are written for a national audience, we encourage you to review each resource for grade-level appropriateness and alignment to standards before using.

**Some resources include both freely accessible and to-be-purchased options. Please review carefully and choose that which best suits your needs.
CPALMS

https://www.cpalms.org/Public/

• The state’s official source for standards information, course descriptions and various aligned resources

• Most content is fully accessible to all stakeholders during this time
  • Original student tutorials
  • MFAS (includes tasks, student misconceptions and questions to elicit thinking)
  • CMAP allows you to assign certain resources for students
NCTM

- 100 Days of Professional Learning
  - https://www.nctm.org/100/

“Being good at mathematics is not evidenced by how many answers you know. Being good at mathematics is evidenced by what you do when you don’t know the answers.”

– Gail Burrill, President NCTM
Educating All Learners

https://www.educatingalllearners.org/resource-library

• Built by educators, this site provides resources, strategies and best practices for supporting students with disabilities online
  • Resources and guidance
  • Technology tools and access
  • Voices from the field
Additional Resources

• FLDOE COVID-19 Resource Page
  • http://www.fldoe.org/em-response/index.stml

• A New Reality: Getting Remote Learning Right
  • ASCD Educational Leadership Special Report
    • http://www.ascd.org/publications/educational-leadership/summer20/vol77/num10/toc.aspx

• Collaborative Teaching Virtual Instruction Tips
  • Florida Inclusion Network (FIN)

• Technology & Learning Connections Website
  • www.tlc-mtss.com

• BEESS PD Portal https://fl-pda.org/independent/courses/
  • Math Difficulties, Disabilities, and Dyscalculia
Coming Soon...

Meeting the Math Needs of ALL Students
Within the Virtual Environment - SERIES:
April 29th (2-3pm)
• Universal Design for Learning in Math
May 6th (2-3pm)
• B.E.S.T. Standards
May 13th (2-3pm)
• Standards-Based Instruction

To register for April 29th: https://bit.ly/2VLNfMp
• FL Department of Education
  • Bureau of Exceptional Education and Student Services
    • Karrie.Musgrove@fldoe.org
    • Thomas.Garrett@fldoe.org
  • Bureau of Standards and Instructional Support
    • Courtney.Starling@fldoe.org

• FL Diagnostic & Learning Resources System (FDLRS)
  • schmitgesh@duvalschools.org (Henry Schmitges)

• FL Inclusion Network (FIN)
  • Caren.prichard@paec.org

• FL State Personnel Development Grant (SPDG)
  • medicic@pcsb.org (Cindy Medici)

• Problem Solving/Response to Intervention Project (PS/RtI)
  • Student Support and Academic Achievement Unit
    • srobertson@usf.edu (Shelby Robertson)
  • Technology Learning Connections Unit
    • tjeffs@usf.edu (Tara Jeffs)
Evaluation

https://bit.ly/2Km5xyC

The recording link will be available on PS/RtI’s website at:

http://www.floridarti.usf.edu/resources/presentations/index.html