
# Differentiation Within the Classroom

*Scott Meech with Kristen Olsen and Megan Ryder*

Presentation for TechForum - Techlearning.com

**Overview:** Three instructional technology leaders from Downers Grove District 58 will share the ways in which the RtI approach to identifying individual students' needs and the SAMR model of technology integration and enrichment are transforming learning in district classrooms. Come explore how everything from flipped lessons within the classroom to an iPad take-home program fit into the picture.

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**Objectives:**

- Define SAMR and the importance of foundational vocabulary
- Identify the 4 forms of Differentiation and provide examples of digital workflow

**Presentation Structure:**

| Activity | Ideas / Resources | Time | Lead Presenter |
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| Introduction | Identify Presenters and Presentation Resources<br>• DG58.us<br>• Twitter: MrsRyder58 / MissOlsen58 / SMeech<br>• DG58 Professional Development Plans<br>• Audience Participation - Give us some of your examples of Differentiation Ideas and Workflow<br>• Backchannel of Questions - If you have questions during the presentation: http://todaysmeet.com/dg58TechforumDifferentiation | 5 Minutes | Scott |
| Define SAMR and the | • Presentation | 5 Minutes | Scott |


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| importance of SAMR vocabulary | • DG58 SAMRi Enrichment Program<br>• Introduction of SAMR in DG58 by Mr. Jon Belonio<br>• SAMR Flowchart by ICT Evangelist | | |
| Defining the 4 ways to differentiate | Carol Ann Tomlinson: What is Differentiated Instruction?<br><br>**Content** - What the student needs to learn or how the student will get access to the information.<br>**Process** - Activities in which the student engages in order to make sense of or master the content.<br>**Products** - Culminating projects that ask the student to rehearse, apply, and extend what he or she has learned in a unit.<br>**Learning Environment** - The way the classroom works and feels. | 3 Minutes | Kristen/ Megan |
| Example of Content & Breakout | • **Document Distribution:** To distribute differentiated materials to students in my classroom, I could use Doctopus to share a reading activity to students with different lexile levels.<br>• **Document Distribution:** Embedded QR Codes in literature to get audio, images, and questions based on ability level. Math centers for three different fraction ability levels. Formative assessment exit slips for each group.<br>• **Audio:** Some teachers are using Siri and Text to Speech features with students.<br>• **Group Collaboration:** 2nd and 7th grade buddies Twitter research collaboration. | 10 Minutes | Megan |
| Example of Process & Breakout | • **Document Distribution:** Traditional model of distributing materials vs. digital model of distributing materials - Showbie/Dropbox and Cam Scanner<br>• **Digital Organization:** Tools4Students, Digital graphic organizers or | 10 Minutes | Kristen |


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| | create a graphic organizer, organize your own thoughts.<br>• **Activities:** Daily 5 - 1:1 Menu<br>• **Class Transitions:** Done with activity? Start on enrichment or reteaching activity (iXL, Raz Kids, etc.) | | |
| Example Product & Breakout | • **Class Expectations:** Start with the learning Target! Students will present and not create a presentation.<br>• **Class Expectations:** Importance of Rubric / Goobric<br>• **Learning Target:** Define Utopian society and demonstrate the definition. List of Learning Lab iPad Apps Power of student choice. During a 6th grade learning lab, students chose an app to create a final product based on a given rubric. Unit of focus was Athens and Sparta. One student chose to use the app, Brushes 3, to describe a Utopian society.<br>• **Learning Target:** Identify right angles around the classroom. Student home connection to right angles on Coaches Eye | 10 Minutes | Megan |
| Example of Environment & Breakout | • **Physical Space:** First Grade Recording/Reflecting Tent,<br>• **Grouping:** Small, Whole, Individual<br>• **Class Expectations:** Posting learning targets<br>• **Routines:** Develop routines for help when teachers are helping others<br>  ○ Screencast available<br>• **Check Ins:** Flashlight for red, yellow and green<br>  ○ Red - I am stuck and can't go any farther<br>  ○ Yellow - I have a question, but can keep moving<br>  ○ Green - I am good to go<br>• 21st Century Learning Space | 10 Minutes | Kristen |


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| Math Differentiation Example | **Example Traditional Math Lesson**<br>• **Review:** Students do their homework at home, bring it back to class, and class starts with a review of the homework.<br>  ○ Checkmark in Gradebook for Completion<br>  ○ Take questions from students and teacher demonstrates solutions<br>• **Direct Instruction:** Teachers demonstrate a new skill and a set of math problems.<br>• **Guided Practice:** Teacher assigns practice items and homework, students go home and do homework.<br>• **Assess:** Once a week or every 7 days there is an assessment for the report card data.<br>  ○ Process for grading?<br><br>**Demo: Example Digital Differentiated Math Lesson - Math Metacognition**<br>• **Guided Practice:** Students come in and complete an Explain Everything screencast with practice math problems.<br>  ○ Example: MathTrain.tv / Mathtrain.com<br>• **Assess:** Teacher assesses the students with Google Form/Flubaroo.<br>  ○ TAKE QUIZ HERE<br>  ○ Spreadsheet View - Results View after I grade them with Flubaroo<br>• **Guided Practice:** Teacher re-arranges groups into activities based upon their assessment.<br>  ○ Students who completely failed assessment - Reteach<br>  ○ Students who partially mastered assessment - Teacher goes back to student screencasts to identify where the student may have skewed their work.<br>  ○ Students who mastered assessment - Deep Practice<br>• **Individualized Instruction:** Students watch differentiated math skills as created by teacher in class and for homework.<br>  ○ Lattice Multiplication Example<br>  ○ Example from Mark White 2nd Grade Class (not multiplication example)<br>• **Personalized Homework** | 15 Minutes | Scott |


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| | **Group Activity**<br>1. Audience Participation - Give us some of your examples of Differentiation Ideas and Workflow<br>2. Backchannel of Questions - If you have questions during the presentation: http://todaysmeet.com/dg58TechforumDifferentiation | | |
| Conclusion: Jar of Fleas | http://www.youtube.com/watch?v=DBfniZuko3g | 7 Minutes | Scott |


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