



Conceptual Teaching from the Classroom and Beyond!!

Just Keep Swimming: Choosing the Right Virtual Resources in the Sea of 2020. The Resource Gals!

Presenters: Jessica Gray, Math Teacher and Curriculum Director and Sarah Horn, First Grade Teacher
Halfway School District

Target Audience: Grade K-5 Teachers, Instructional Coaches, Technology Leaders, and Curriculum
Leaders

Join the Resource Gals whose ships take them from daily face-to-face instruction to engaging virtual learners with the right resources! We will discuss all our secret lifelines that include google classroom, SeeSaw, Loom, Kami, IXL, and MORE! Let us help you keep your ships afloat as we sail through this school year!

Striking the Balance: Proficiency, Growth, Conceptual Understanding, and Procedural Fluency

Presenters: David Rogier, Gigi Goodall, Educational Consultants for I-Ready

Target Audience: Professional Development Chairs, Instructional Coaches, Curriculum Leaders, and
Administrators

Education is a different world as we have returned for back to school. Due to the loss of invaluable instructional time and inconsistent gaps in learning due to the COVID pandemic and remote learning, accessible, accurate, reliable data is more necessary than ever. Understanding how to navigate and balance on-grade level instruction, remediation, fluency, growth, proficiency, and pre-requisite skills and standards are now just the "norm" for educators. How do we accomplish all of this and still provide our students with the personalized attention and care they desperately need? Using curated tools that provide valid, necessary, and coherent data and resources at point of use.

By embedding focused and relevant professional development into our scope and sequence. Reviewing vertical alignment and pacing in a new way. Communicating with one another and looking to partner with teams that share the same vision as we do, and so much more as we seek to serve Missouri's students to the fullest.

How to Differentiate in the Virtual World – Handouts Only Available

Presenter - Brooke Sullivan, Houghton-Mifflin Harcourt Math Content Specialist

Brooke Sullivan is a Math Content Specialist with over a decade of experience in teaching, administration, and curriculum training. Brooke has a degree in Mathematics Education and regularly trains teachers across the United States on how to implement new math curriculum and best classroom practices. A passionate believer in being a forever learner, Brooke regularly attends workshops and studies relevant publications to expand her knowledge on current trends and techniques. When Brooke isn't hard at work, you can find her on the ski slopes of beautiful Colorado.

Target Audience: Teachers, Instructional Coaches, Curriculum Leaders, and Administrators

Being able to differentiate our instruction to address the unique needs of our students is a critical part to assuring student success in their math education journey. Finding the time and resources to address these needs can sometimes be difficult when we are teaching in the classroom, but what about when we are teaching remotely? In this workshop, we will look at ways to streamline planning and implementing differentiation while teaching remotely.

Using the STEM Teaching Tools

Presenter: Kristen McKinney, DESE Science Consultant/Office of College and Career Readiness and Roblyn Melton, SMCAA Content Specialist

Target Audience: Science Teachers, Instructional Coaches, Curriculum Leaders and Administrators

The Missouri Science Standards are designed to be taught using a three-dimensional approach, combining content with science and engineering practices and crosscutting concepts. The STEM Teaching Tools are a wonderful resource to provide support for teachers as they plan units of instruction, identify phenomena, and plan for critical thinking. Join us as we examine how, when, and why you would want to use these tools. We will include a discussion of the MO LEAP teaching blocks.

Building the Foundation for Conceptual Teaching and Learning – Handouts Only Available

Presenters: Amy Wright, Instructional Coach/Curriculum Facilitator and Annie Sisemore, Laura Gibson and Kristen Shackelford, Belton's Fabulous Instructional Team

Target Audience: Teachers, Curriculum Leaders, Instructional Coaches and Administrators

With the rigorous demands of state assessments, districts need to have curriculum designed to support instruction for conceptual understanding. Beginning with an eye for vertical alignment and reevaluating our priorities, our district dove into the work of training teachers in writing assessments for conceptual understanding. From vertically aligned priorities to a new understanding of assessment writing, the journey moved on to creating clarity in pacing guides, clarity in instructional resources, and even ended up with a shift in structure for curriculum writing teams. Join us as we share our journey to build a strong foundation for conceptual teaching and learning.

MO LEAP: Moving Forward in Changing Times

Presenter: Dixie Grupe, Social Studies Director in the Office of College and Career Readiness.

Target Audience: K-12 Social Studies Teachers, Instructional Coaches, Curriculum Leaders and Administrators

Mark Twain once said, “The secret to getting ahead is getting started.” And, while it is seldom wise to second guess Twain, these days it seems necessary to add a healthy dose of Nobel Prize winner Ilya Prigogine’s observation as well: “The future is uncertain, but this uncertainty is at the very heart of human creativity.” Missouri Learning, Engagement and Preparation (MO LEAP) is just such a response: a DESE effort to provide educators with creative resources to get started meeting the academic challenges of these changing times. Dixie will share information about these grade-appropriate, standards-aligned resources and show how educators can use MO LEAP materials to support acceleration of student learning.

The Challenges and Opportunities in the 2020 Science Classroom – Handouts Only Available

Presenter- Greg Trieste, Content Specialist for Houghton Mifflin Harcourt specializing in K-8 Science

Greg Trieste is a STEM Content Specialist for Houghton Mifflin Harcourt specializing in K-8 sciences. Previously he was a classroom teacher and education technology specialist. Most recently, he taught at Dallas Independent School District where he served as an Intervention Specialist. Greg first taught in a 1-to-1 digital classroom in 2008 and has made educational technology his greatest area of emphasis and research ever since. Greg has presented at both the NSTA & NCTM national conferences. He is a Google Certified Teacher and an Apple Certified Teacher. Greg is a volunteer Adult ESL teacher. Gregory holds a B.A. and M.Ed. from Washington State University. He lives in Dallas, Texas.

Target Audience: Science Teachers, Instructional Coaches, Curriculum Leaders, and Administrators

What does a science classroom look and feel like in 2020? What do students experience and how is teaching content, labs and assessments approached differently when instruction is delivered via Zoom? In this workshop, participants will examine the process of creating an interactive science classroom environment and will experience strategies and processes that can easily transfer to immediate classroom use. Participants will examine how traditional hands-on, inquiry-based activities can be adapted for differing classroom models.

Learning at Lunch: Distance Learning Like a Champion Teacher!

Presenters: Dr. Janie Pyle, SMCAA Director of Programs and Roblyn Melton SMCAA Content Specialist

We will continue our virtual conference with a new approach to teaching in a virtual setting. How do we best organize and prepare for the online environment? What does distance learning engagement look like? How do we create a predictable and stable virtual learning environment? Using new research and information hot off the press from Doug Lemov ([\[Champion\]Teaching in the Online Classroom](#)), John Hattie ([Distance Learning Play Book](#)) and others, we will share the best techniques and tips available at this moment to address your needs for effective distance learning. Let’s learn together how to best build the virtual plane while we fly it!

“Rigoring” Up Questions: Write Quizzes and Assessments Like a Pro

Presenter: Douglas Smith, Assistant Superintendent for Curriculum and Instruction, Wright City School District

Target Audience: Teachers, Instructional Coaches, Assessment Directors and Curriculum Leaders

Educators often rely on canned programs, released items or textbook resources to provide rigorous questions rather than on their own personally generated ones. Since students are required on standardized exams to answer rigorous selected-response questions with embedded content, teachers with the capacity to write effective standardized questions can gather more usable data to prepare students for rigorous exams. This session will provide attendees the tools necessary to create quality DOK level 2 and 3 selected response questions.

Session Outcomes:

- Learn to differentiate between effective selected-response questions and those not tied directly to standards or written to the appropriate level of rigor.
- See how the Wright City School District’s focus on question-writing led to greatly improved scores on a variety of standardized exams.
- Discover how creating your own quality assessment questions tied to daily lesson objectives will improve instruction, provide better data, and make the teaching focus more intentional.