

Southern Nevada Annual Mathematics and Science Conference



**\$ GOING
\$ GREEN!**

Economy & Environment

Annual Southern Nevada
Math & Science Conference
Rancho High School, Las Vegas
January 21-22, 2011

Rancho High School, January 21-22, 2011

presented by
Southern Nevada Mathematics Council
Southern Nevada Science Teachers Association
Southern Nevada Regional Professional Development Program
Clark County School District – Curriculum and Professional
Development Division



Friday, January 21, 2011

- 3:30 p.m. – 5:00 p.m. Registration
Rooms 513 and 802
- 4:00 p.m. – 8:30 p.m. Exhibitor Area Open – Complimentary Snack
Room 400 - Cafeteria
- 5:00 p.m. – 6:20 p.m. **Session 1**
- 6:30 p.m. – 8:30 p.m. **Session 2** – Keynote Speaker, Dr. Juanita Copley
Presidential Award Presentations
Room 200 – Theater

Saturday, January 22, 2011

- 7:30 a.m. – 11:00 a.m. Registration Open
- 7:30 a.m. – 3:30 p.m. Exhibitor Area Open – Complimentary Breakfast &
Lunch
Room 400 - Cafeteria
- 8:00 a.m. – 9:20 a.m. **Session 3**
- 9:30 a.m. – 10:50 a.m. **Session 4**
- 11:00 a.m. – 12:20 p.m. **Session 5** (Nspired Learning with TI in the Gym and
Science Lunch Served)
- 12:30 p.m. – 1:50 p.m. **Session 6** (Nspired Learning with TI in the Gym and
Math Lunch Served)
- 2:00 p.m. – 3:20 p.m. **Session 7**
- 3:30 p.m. – 4:50 p.m. **Session 8**

You may spend one of your session times visiting the exhibitor area to see what is new in the field of education. The time spent in the vendor area can be applied toward the hours required to receive credit.

Lost and found, volunteer check-in, and conference questions:
Go to the **information booth** in the **exhibit area/cafeteria**.

Please see the Student Volunteers in green t-shirts
or Committee Members in Black if you have additional questions.

Conference Schedule



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Rancho High School
First Floor Map



Conference Map – First Floor



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Rancho High School
Second Floor Map



Conference Map – Second Floor



KEYNOTE SPEAKER:
Dr. Juanita "Nita" Copley
Friday, January 21, 2011
6:30 p.m. in the Theatre, Room 200

Powerful Mathematics and Science: More than Procedures and Skills

All students can learn to reason, analyze, hypothesize, and make conjectures about mathematics and science concepts. In our effort to help special students, we often focus on procedures and skills and ignore the big ideas of mathematics and science. In this session, student-created math/science projects along with suggestions for powerful teaching and learning will be shared.

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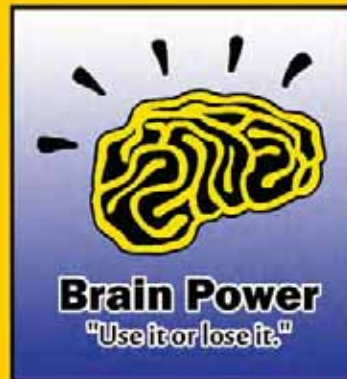
MATH WIZ™



Math Wiz is a hands-on learning arithmetic card game for all ages. Playing **Math Wiz** stimulates interest in math, while engaging players in mental arithmetic exercises and algorithms in a fun competitive way. Every round is a math puzzle!



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Nspired Learning Event

"Experience Nspired Learning" Hosted by Texas Instruments

Who: All Conference Participants are Invited

What: Hands-on "Mini-Workshops" featuring the latest innovative technology from TI and DLP; the opportunity to win exciting door prizes including TI Nspires, the TI Nspire Teacher Edition Software and Data Collection Devices.

Where/When: January 22, 2011 Auxiliary Gym/ 11:00 AM-1:50 PM

Why: Network with Colleagues, Learn about TI Technology, and Have Fun!

Here's how it works:

As the **first step**, Participants should complete green information cards found at the center tables. Participants must provide complete contact information on the card.

Bring your card to each of the four Mini Workshop Stations and complete the hands-on activities. You may start at any station.

TI and the Clark County School District teachers' will stamp the cards to indicate completion of each task. Participants turn in completed cards to host.

Each participant who receives the four stamps on his/her card will receive a Math Rocks or Science Rules Poster and will be entered into the exciting Door Prize Drawings going on throughout the event!



TI Nspired Learning



Session #	First Choice	Second Choice	Third Choice
Session 1: Friday 5:00 p.m. – 6: 20 p.m.			
Key Note Presentation Dr. "Nita" Copley Theater (Room 200)			
Session 3: Saturday 8:00 a.m. – 9:20 a.m. <i>Featured Speaker</i> Dr. Richard Murphy			
Session 4: Saturday 9:30 a.m. – 10:50 a.m. <i>Featured Speakers</i> Cindy Sharp Tracy Gruber David Brancamp			
Session 5: Saturday 11:00 a.m. – 12:20 p.m.			
Session 6: Saturday 12:30 p.m. – 1:50 p.m. <i>Featured Speaker</i> Dr. Stephen Pruitt			
Session 7: Saturday 2:00 p.m. – 3:20 p.m.			
Session 8: Saturday 3:30 p.m. – 4:50 p.m.			

Blank Schedule

Session 1 – Friday 5:00 p.m. to 6:20 p.m.

Sherlock Holmes in the Classroom

Room: 1001

K-8, Science

Liane Filkowski, Mineral County School District, 7th & 8th Grade Science Teacher

Engage your students in science. Have students use their senses and observation skills to solve problems. Quick science demonstrations to get your students talking and writing about science. Get activities and ideas to bring back to your classroom.

Conserve and Reserve: Helping Students Go Green

Room: 1002

K-12, Math & Science

Francine Gollmer, Gene Ward Elementary School, 5th Grade Teacher

Maria Cieslak, Gene Ward Elementary School, 5th Grade Teacher

Participate in simulation games you can do with your students to increase environmental awareness. This interactive session will help you engage your students as they learn how to reduce their global ecological footprint. As Japan Fulbright awardees we will share activities that are being done globally in international communities.

Wahl-mart Science 2011

Room: 1003

K-12, Math & Science

Damon Wahl, Kay Carl Elementary School, GATE Specialist

Natalie Wahl, Support, Teacher

Mr. Wahl is back to give you some more science on a budget ideas. These science concepts can be made simple or be part of something more complex. Come learn a bunch of new ideas (unless you came last year, there are a few new ideas) to make your science lessons great.

Using Online Simulations to Improve Conceptual Understanding in Math and Science

Room: 1005

3-12, Math & Science

Jennifer Ranney-Poole, Clark County School District, CPD Math Coach

Learn how online simulations help teachers take advantage of research-proven instructional strategies and help students of all ability levels develop conceptual understanding in math and science. Teachers can supplement and enhance instruction with powerful interactive visualizations of concepts.

Social Networking in School?

Room: 1100

K-12, Science

Carole Moreo, CPDD, Instructional Technology, Project Facilitator

Sara Stewart, CPDD, Instructional Technology, Project Facilitator

Edmodo is a free educational social networking tool designated for communication and collaboration. Benefits include, but aren't limited to, paperless classroom, engaged students, independent & self-directed learning, learning community building, active collaboration and many more! Come see for yourself.

Student Success in Math and Science: Preparing Students to be World Ready

Room: 1101

K-12, Math & Science

Carol Carter, LifeBound, LLC, President/Author

During her presentation, Carol Carter addresses why rigorous math and science education is critical for students' cognitive development, and why competency in these subjects is essential for students to be competitive in the working world.

How Green Can Your School Grow?

Room: 1102

K-12, Math & Science

Jessica Cimino, Jim Bridger Middle School, 7th Grade Earth Science Teacher

Kathy Litz, Jim Bridger Middle School, ECS

Jim Bridger MS has been a Green Power School for 5 years. Explore how green your school can become, science and math technology, green lessons, and different types of technology that can be used in the science classroom.

Poddy Training

Room: 1103

K-5, Math & Science

Brandi Mora, Helen Herr Elementary School, Technology Specialist

Linda Yee, Don Hayden Elementary School, Technology Specialist

Come discover how to integrate an iPod Touch into your elementary math and science curriculum. Come see lessons that were created around many familiar free Apps like The Weather Channel, ESPN and Wal-mart. This session will be hands on, where you can explore an iPod Touch that is preloaded with many free educational Apps.

Teaching & Learning Logic and Proof in Geometry

Room: 1209

9-12, Mathematics

Mike Patterson, Advanced Technologies Academy, Teacher

Break the code in Mastermind, solve the sequence in Coda, organize logical steps, or chain conditional statements - Participants will learn and experiment with different ways to teach deductive logic. This session will focus on converting classroom experiences into the proper use of deductive logic.

Making the Case for Teaching Financial Literacy in School

Room: 1213

6-12, Mathematics

Troy Watts, Nevada State Treasurer's Office, Marketing Coordinator

Sheri Perez, The Stock Market Game, Coordinator

The importance of teaching basic financial literacy principles will be addressed as a way to empower the next generation to make wise financial decisions in the midst of ever-changing economic times. We will briefly discuss a few of these principles as outlined in the Nevada Department of Education's Guidance Document (which serves to assist school districts in meeting the requirements of Nevada State Senate Bill 317). We will also discuss The Stock Market Game, and how this online simulation game for grades 4-12 is aligned to Nevada's standards in Economics, Mathematics, Language Arts, Social Studies, and Technology. A demo of the game will also be included.

N-spiring Mathmatics: Explorations with the TI-Nspire Graphing Utility

Room: 1215

9-12, Mathematics

Brad Talich, Las Vegas High School, Math Teacher

Investigations with the TI-Nspire Calculator: Participants will investigate how to navigate on the N-spire calculator and use the calculator for interactive pages in Algebra, Geometry, Algebra II and Statistics. Participants will create and Algebra investigation page, Geometry investigation page and tie each into data and statistics for further analysis.

The New Face of enVisionMATH on SuccessNet

Room: 1216

K-5, Mathematics

Kaycee Williams, Pearson, Curriculum Specialist

Come and see the basics of the newly formatted Pearson SuccessNet enVisionMATH website. Learn how to navigate, assign lessons and assessments and gather lesson-guiding data.

Modeling Integer Operations

Room: 1217

6-8, Mathematics

Helen Billhimer, Carson Middle School, Carson School District, Teacher

Kim WhislerWhisler, Carson Middle School, Carson School District, Teacher

We invite you to come and explore integer operations. This hands-on class will teach you ways to model all four integer operations. You will leave with a better understanding of how integers work. You will be able to use what you learn here on Monday in your classroom. WARNING! You may want to eat your manipulatives, but please wait until the end of class.

The Computer Algebra System on my TI-Calculator....first steps.

Room: 1219

9-12, Mathematics

Tom Fox, University of Houston-Clear Lake, Associate Professor of Mathematics Education

We'll take a look at the Computer Algebra System (CAS) on the both the TI-89 & TI-NSpire. Hands-on opportunities will be provided. Try some of the basic functions CAS and to examine some issues related to the use of the CAS in the mathematics classroom.

Computational Proficiency--Priorities, pitfalls, & practical how-to ideas

Room: 1221

K-12, Mathematics

Owen Nelson, CCSD Retired/University of Nevada Las Vegas/University of Phoenix, Adjunct Prof

Insights and practical ideas gleaned from Nelson's 50+ years teaching classroom math at all levels from primary through college algebra. Nelson has also served as elementary math consultant, as an instructor of "Math for Elementary Teachers" and "Math Methods", and as a specialist in remedial math.

A Puzzle a Day Keeps the Dullness Away

Room: 1315

3-12, Mathematics

Jeremy Rayzor, Rayzor Sharp Entertainment, Inc., CEO

This workshop will give you a hands-on introduction to Rayzor Sharp's Math Wiz, the puzzle card game. You will learn strategies that will help develop persistence, confidence in math, mental arithmetic, and problem solving skills, in a fun approach. Come join your fellow teachers!

The Singapore Approach to Mathematics

Room: 1317

K-8, Mathematics

Jason Mitchell, Houghton Mifflin Harcourt, Director of Educational Partnerships

Dr. Debi Crimmins, Houghton Mifflin Harcourt, VP of Educational Partnerships

Join us in a discussion about Singapore, and how this tiny nation became the global leader in Mathematics. The Singapore approach to math includes bringing focus and coherence to curriculum, teaching math standards to mastery instead of using the spiraled approach, using hands-on materials and a visual approach to learning math, and rigorously preparing students with tools to solve problems.

Using TI Connect Software to Maximize the Use of Texas Instruments Calculators

Room: 1216

6-12, Mathematics

Marilyn Parker, Texas Instruments National Instructor

This hands-on workshop will teach participants how to use the free TI Connect software to back-up their calculator programs. Creating tests and quizzes with screen captures from Texas Instrument calculators will also be covered as will downloading Apps and programs from TI's website and sending them to others as attachments to emails. Bring your own calculator or borrow one at the workshop. Can be used with TI-73, 83/84, 89, 92, and Voyage 200.

Box and Whisker Plots

Room: 1319

6-12, Mathematics

Christine Corbin, Del Webb Middle School, Math Teacher

Candace Aplin, Del Webb Middle School, Math Teacher

Deena Lyons, Del Webb Middle School, Math Teacher

Participants will be working on finding a five number summary and do a cut/fold activity to create box and whisker plots. These activities will provide students with hands-on and visual understanding of parts of a box plots including median, upper and lower quartiles. It will provide an understanding of interquartile range. There will also be a calculator component to show for 5# summaries.

Session 2 – Friday 6:30 p.m. to 8:30 p.m.
Keynote: Dr. Juanita “Nita” Copley
Theater, Rm. 200

Dr. Juanita Copley is a Professor at the University of Houston and currently serves as Chair of the Curriculum and Instruction Department in the College of Education. Her presentation ***Powerful Mathematics and Science: More than Procedures and Skills*** will focus on problem solving, with an emphasis on special education students in mathematics and science. She will leave you inspired, by showing how ALL students can learn to reason, analyze, hypothesize, and make conjectures about mathematics and science concepts. Often in our effort to help special students, we often focus on procedures and skills and ignore the big ideas of mathematics and science. In her address, student-created math and science projects will be shared along with suggestions for powerful teaching and learning.

Session 3 – Saturday 8:00 a.m. to 9:20 a.m.
Featured Speaker: Dr. Richard Murphy
Theater, Rm. 200

RICHARD MURPHY, Ph.D., DIRECTOR OF SCIENCE AND EDUCATION, OCEAN FUTURES SOCIETY

Murphy has a Ph.D. in marine ecology from the University of Southern California. He began working with Jacques-Yves and Jean-Michel Cousteau in 1968. He has been involved in projects and expeditions around the globe, from the Caribbean through the South Pacific. He has served as chief scientist, photographer, writer, educator and project director. He creates education programs for young people in developed and developing countries. His book [Coral Reefs: Cities Under the Sea](#) offers a unique perspective providing lessons on sustainable communities.



Technology in the Classroom: Clicking on Your Students - Giving All of Your Students Remote Control Power! And Web-Based Simulations to Enhance Math & Science

Room: 1001

3-12, Math & Science

8:00 a.m. until 8:40 a.m.

Ken Thornock, Lincoln County High School/Middle School, Lincoln County School District Teacher/Administrative Assistant

This will be a look at how to use hand held remotes to help engage all of the students in your classroom. Use the remotes to do pre and post quizzes, do activities, and review from tests, plus much more. These will help engage the majority of your students while implementing a technology that yields immediate results for the teacher to use.

8:40 a.m. until 9:20 a.m.

Aaron Ingold, Explore Learning

In this session, participants will learn how to incorporate virtual manipulatives into science and math instruction. Virtual manipulatives provide students with the opportunity to build lasting knowledge of science and math concepts through hands-on exploration of web-based instructional technology. The simulations are open ended and inquiry-based and help to make the role of technology seamless.

Remotely Operated Vehicles and Robotics in the classroom and school

Room: 1002

6-12, Math & Science

Lisa McClure, Bridger Academy of Math, Science, and Technology, Robotics Teacher

Kimberly McClure, Bridger Academy of Math, Science, and Technology, Literacy Teacher

Come and see some samples of student underwater ROVs and see how you too can join a variety of new and innovative underwater robotics programs that will train you to teach your students how to design and build underwater ROVs. Designing and building these ROVs teach many skills in a fun and exciting way. They could be used to meet many different standards in multiple subject areas.

Going Green: Economical and Environmentally Friendly Inquiry in Chemistry

Room: 1003

9-12, Science

Ed Waterman, Pearson, Author, Retired High School Chemistry Teacher

Learn how to implement safe, simple, easy to set up, material-conserving, time-efficient and effective inquiry activities in chemistry. Each activity teaches core content and fosters problem solving, creativity and invention. Safety and differentiation are built in and students are encouraged to design and carry out diverse activities that are neither possible nor appropriate with traditional materials.

Free Web Resources for the Science Classroom

Room: 1005

9-12, Science

Tambre Tondryk, Virtual High School, Clark County School District, Science Teacher

Kenneth Olin, Virtual High School, Clark County School District, Science Teacher

Join science teachers as they demonstrate free online resources that can enhance the science classroom. This presentation will introduce virtual simulations, webquests, and online problem based learning activities that teachers can use to engage and challenge students. If you are looking for economical methods to enhance your curriculum and laboratory lessons, you do not want to miss this session!

Molecular Models

Room: 1102

6-12, Science

Valdine McLean, Pershing County High School, Pershing County School District, LABAIDS presenter

Shaun Terry, Pershing County High School, Pershing County School District, Teacher

Bruce Campbell, Wooster High School, Washoe County School District, Teacher

Come learn how to use Lab-Aids Molecular Models in coordination with the Natural Approach to Chemistry curriculum. Three labs will be featured: Lewis Dot Structures, Geometry of Molecules, and Building an Amino Acid Chain. Participants will be put in a drawing for a free Lab-Aids give away.

Homework -- A Unique Approach

Room: 1215

5-12, Mathematics

Kathy Frick, Math's Mate

This session will involve conversation and hands-on experience with the weekly homework materials developed in Australia for grades 5 through 12. It addresses all content standards with weekly review of essential math skills as well as problem solving. It supports all curriculum and is sequential. Embedded assessments allow for diagnosis and intervention -- a real time saver for teachers! If time permits, visit our website at mathsmate.net for a preview and additional information.

Smarten Up Your SmartBoard

Room: 1216

K-12, Mathematics

Carole Moreo, CPDD, Instructional Technology, Project Facilitator

Take your Smart Notebook lessons to the next level of student engagement. Learn how to create an interactive math lesson using embedded links, screen recording, and Flash media. Integration with TI SmartView, TinkerPlots, Geometer's SketchPad, and the National Library of Virtual Math Manipulatives will be highlighted. This session is for experienced Smart Notebook users.

Foldables: Interactive Graphic Organizers

Room: 1217

6-8, Mathematics

Joyce Cannone, Midwestern Intermediate Unit IV, Math, Science, Data Analysis Consultant

Come and develop three-dimensional educational manipulatives, also known as graphic organizers, that quickly organize, display and arrange data, making it easier for students to grasp concepts, theories, processes, facts, and ideas, or to sequence events as outlined in the content standards.

STEM and the TI-Nspire

Room: 1219

6-12, Mathematics & Science

David Young, Fayetteville Public Schools, Teacher

Mike Odell, Ingenuity Center/East Texas STEM Center, Executive Director

Science, Technology, Engineering, and Mathematics are taught, for the most part, as separate events in school. Come see how TI and the UT at Tyler Ingenuity Center/East Texas STEM Center under the direction of Michael Odell developed several long-term, TI-Nspire based investigations that make a worthy STEM event in the classroom. Take these investigations home to try with your students.

Math Assessments Across Nevada

Room: 1221

K-12, Mathematics

Tracy Gruber, Nevada Department of Education, K-6 Mathematics Specialist

Participants will learn about assessments used in the math classroom, the district, and finally the state. Come hear the secrets to building success for your students in all arenas of the assessment world.

Unpack The Math To Reach Them All

Room: 1315

6-8, Mathematics

Perry Gelakis, Thames Valley District School Board/Neufeld Learning Systems Inc., Math Consultant

Participants will learn how to unpack the Big Ideas in mathematics into their discrete subconcepts for differentiated instruction. Using manipulatives, technology and effective instructional strategies students of all ability levels will gain access to a deep understanding of math concepts. Complimentary CD provided.

What are Desirable Difficulties and Why Would We Want to Experience Them?

Room: 1317

6-12, Mathematics

William Speer, University of Nevada Las Vegas, Dean

Sometimes learners express a reluctance to look at mathematics in an alternative way to their initial exposure to the topic. Pleas of "You're going to confuse me!" may actually signal an unrecognized confusion that is ALREADY present. There are many benefits to be gained by creating DESIRABLE DIFFICULTIES designed to encourage thinking about mathematics as well as enhancing both long-term retenti

Get Caught Up in WebQuests: Connecting Content to Culture

Room: 1318

3-8, Math & Science

Sara Podlewski, Center on Disability Studies, College of Education, University of Hawaii at Manoa, Math Specialist

Norma Jean Stodden, Center on Disability Studies, University of Hawaii at Manoa, Associate Professor

Martha GuinanGuinan, Center on Disability Studies, University of Hawaii at Manoa, Educational Specialist

The Ka'imi loa o ka hihi Project gives teachers a tool to engage students in active, purposeful learning through the use of WebQuests. Each Ka hihi WebQuest: addresses a standard, targets grades 4-7 in Math/Science, provides differentiation to reach all learners, integrates elements of Native Hawaiian culture and employs best practices. Come explore <http://www.webquest.hawaii.edu/kahihi/> with us.

Brain-Based Math Strategies to Enhance Problem Solving

Room: 1319

K-5, Mathematics

Mary Anne Cox, CCSD, GATE Program Facilitator--Area 2/3

How does the brain best learn mathematical concepts? In this hands-on session, participants will gain an understanding of why the brain learns math the way it does, and will walk away with effective strategies to engage students in meaningful mathematical problem solving.

UNLV Mathematics Course for Special Needs Students

Room: 1321

Other Level, Mathematics

Carryn Bellomo, University of Nevada, Las Vegas, Associate Professor

UNLV students diagnosed with a math disability were previously waived out of math. This alarming trend resulted from difficulties accommodating these students within the traditional classroom. I developed a course for these students, relating concepts that benefit their everyday life, and have offered it for several years. In this presentation I will review the course and its implementation.

Session 4 – Saturday 9:30 a.m. to 10:50 a.m.

Featured Speakers

Cindy Sharp, Nevada Department of Education

Tracy Gruber, Nevada Department of Education

David Brancamp: NWRPDP, Director

Theater, Rm. 200

Common Core State Standards: Where is Nevada Going?

This is a panel discussion on the direction of Nevada with regards to the Common Core State Standards for Mathematics and ELA

What is your Ecological Footprint?

Room: 1000

Dr. Richard Murphy, Jean-Michel Cousteau's Ocean Futures Society

Each of us leaves an ecological footprint on our environment. Collectively, all humans contribute to the sustainability of our world ecosystem. By understanding how the product choices we make impact our global economy, we can present a compelling lesson to our students about sustainable choices.

Erosion and Deposition - Table Top

Room: 1004

Pat Lewis, Lab-Aids, Inc., Consultant

Johanna Franklin, Lab-Aids, Inc., Consultant

Participants investigate the destructive forces of wind, wave and water on landforms as they decide where to build homes. Stream tables and topographic maps are used, respectively, to study river action and deposition of sediments, and landform contours. Model the effect of waves on a cliff and read about the effect of earth processes on coastal systems and the efforts to mitigate the impact of humans.

Ready, Set, SCIENCE! Effective and Fun Science Teaching and Learning

Room: 1007

K-8, Science

Brett Moulding, Partnership for Effective Science Teaching and Learning, Director

Ready, Set, Science! (RSS) provides K-8 science educators with the latest research based instructional strategies for effective science teaching and learning. Session will provide attendees with hands-on experiences to understand ways to put RSS into action in their classroom. The activities are engaging and fun ways to align instruction to standards. Attendees will receive the book RSS.

A Virtual Biology Environment You Have to See to Believe

Room: 1008

9-12, Science

Brian Woodfield, Pearson Education/Brigham Young University, Professor of Chemistry

In this talk we will provide a complete tour of Pearson's new virtual environment for high school and AP level biology courses. Labs that are included in Virtual Biology include Microscopy, Genetics, Molecular Biology, Ecology, and Systematics. In addition to a tour of the labs, we will also discuss how to implement the labs in the classroom and engage students in this open-ended environment.

Evolution - Dispelling the Misperceptions

Room: 1009

6-12, Science

Daniel Bleyle, Sunrise Mountain High School, Biology Teacher

Kathleen Merritt, Sunrise Mountain High School, Teacher

This presentation will provide attendees with activities for dispelling with commonly held misperceptions about evolution.

The Many Faces of Poly Mer

Room: 1010

K-8, Science

Christie LeBeau, Kitty M Ward Elementary School, GATE Teacher

Come meet Poly Mer. She has many faces both natural and synthetic. In the session you will engage in several quick polymer demonstrations. You can use the information in this session for teaching the science process.

Earth & Environmental - Modeling Ecosystems

Room: 1103

9-12, Science

Jason Lovell, PASCO scientific, K-12 Education Consultant

See how a guided inquiry approach in your biology and environmental science lab can increase student understanding of difficult concepts like biogeochemical cycles, cellular respiration and photosynthesis. Participants will create model ecosystems in PASCO's EcoZone System and use data visualization technology to monitor changes within the ecosystem.

Thinking Outside the Classroom: CHOLLA & Service Learning

Room: 1104

K-12, Math & Science

Aaron Leifheit, Red Rock Canyon Interpretive Assoc., Enviro. Education Program Director

Pam Thomas, LV Natural History Museum, Education Director

Amanda Rowland, Southern Nevada Agency Partnership, Education and Outreach Specialist

Liz Henry, Earthforce, Outreach and Partnership Specialist

In this session participants will learn about CHOLLA – a consortium of community agencies that collaborate to provide different ways for students to connect and extend their classroom learning thru Southern Nevada's museums, parks, and cultural centers. The teachers will come away with an understanding of different community partners and the opportunities that these partners can provide them. This will be a hands-on session giving examples of activities, different field trips available to them, and an overview of training & support in engaging youth in community problem solving (service-learning).

It's Elementary: Using Excel to Create Graphs and as an Instructional Tool

Room: 1108

K-12, Math & Science

Don Carlin, Walter Bracken Elementary Magnet School, ECS

Students make and interpret graphs as part of their content standards. Why not combine a technology standard and have the students construct and interpret charts using a spreadsheet? Participants will learn to make eight different types of graphs in Excel in a matter of minutes. Also learn a dozen or more educational applications for spreadsheets in the classroom.

Session 5 – Saturday 11:00 a.m. to 12:20 p.m.

Science Lunch - Nspired Learning with TI in the Gym

Learn at Lunch with Dr. Richard Vineyard @ Kiosk

Two Goulutes and a Geezer Share Math Apps Strategies.

Room: 1209

9-12, Mathematics

Cindy Jackson, Rancho High School, Teacher

Deb Reed, Rancho High School, Teacher

Larry Wilson, Desert Rose High School, Teacher

Three experienced Math Apps teachers will share some of their techniques they find useful. Time will be allotted for the participant to share their ideas as well and possibly earn an "Honary Goulut" prize.

enVisionMATH and Premium SuccessNet: What's Behind the Black Button

Room: 1215

K-5, Mathematics

Glenn Gordon, Pearson Education, Curriculum Specialist

Take your math instruction to the next level by using the digital tools available in the Premium area of SuccessNet. Every time you log on to SuccessNet you see that black Premium button, but are you taking advantage of everything that's available there? In this session you'll learn how to customize, individualize, and personalize your lessons using these premium digital resources.

Visualizing Algebra Through Math and the Minds Eye

Room: 1217

6-12, Mathematics

*Suzanne Hossler, Fertitta Middle School, Math Teacher
CPD Math Lesson Studies Cadre Math 8 Teachers, Various*

Visualizing Algebra is a powerful supplemental unit from the Math Learning Center. It is a program that allows students at all levels to engage in Algebra and Algebraic reasoning using visual models. The Math Learning Center has donated sets of their materials to participants who attend this session.

Deal or No Deal? Fair or Not Fair?

Room: 1219

9-12, Mathematics

*Jason Gershman, Nova Southeastern University, Assistant Professor/Coordinator of
Mathematics*

Participants will engage in an interactive session whereby they will calculate mathematical measures of mean, median, expectation, and fairness in order to analyze the offers from the —banker' in the game show Deal or No Deal and predict offers as the game progresses until the final deal is accepted.

Teaching Special Population Students Basic Math Facts and Skills

Room: 1221

3-8, Mathematics

*Michael Padeken, Virgin Valley High School / Hughes Middle School, ELL Specialist/District
K-5 Math Cadre*

This presentation teaches how to use mnemonics and memory hooks to teach the multiplication and division math facts using a new strategy called "Finger Poppin', Hip Hoppin', Skip Countin' Math Facts" in a FUN, FAST, EASY and FULLY ENGAGING way that is Teacher and Student Friendly. This strategy is very effective with Special Populations such as Below Average General Ed., ELL and SPED students.

Get Physical with Math Review

Room: 1311

K-5, Mathematics

*Karen Staffen, Hugh Gallagher Elementary School, Storey County School District, 4th Grade
Teacher*

Looking for ways to reach your kinesthetic math learners? Want to get those squirming students up and moving around? Kids love to play games—and they love to be active! This hands-on demonstration will show you ways to add some P.E. to your day and reinforce math skills at the same time. Participants will walk away with ideas and materials, ready to go for Monday morning.

Take Geometry Out of The Box!

Room: 1315

6-8, Mathematics

Perry Gelakis, Thames Valley District School Board/Neufeld Learning Systems Inc., Math Consultant

Engage students of all ability levels through connecting geometry through other math strands. Learn how to weave interactive technology into your mathematics program along with high yield instructional strategies in a variety of instruction settings. Participants will explore the interconnections between geometry and fractions, algebra, graphing, and probability. CD and other resources included.

It's Time to Allow Students to Learn Mathematics!

Room: 1319

6-12, Mathematics

Tina Baer, Steptoe Valley High School, White Pine County School District, Mathematics Teacher

According to Dr. Lee Jenkins, the bane of American education is that educators give students permission to forget what they learn. Especially true in mathematics where we teach and reteach topics like fractions and integers in isolation. When students fail to master, we place them in intervention classes thereby denying them opportunities to learn new and exciting math. There is a better way!

Aspects of Computational Mathematics

Room: 1321

Other Level, Math & Science

Monika Neda, University of Nevada Las Vegas, Assistant Professor, Department of Mathematical Sciences

In this talk, the aspects of computational mathematics will be addressed. Equations that describe different physical applications and numerical methods for obtaining solutions will be discussed.

Session 6 – Saturday 12:30 p.m. to 1:50 p.m.

Math Lunch - Nspired Learning with TI in the Gym

Featured Science Speaker: Dr. Stephen Pruitt, Lecture Hall, Rm. 513

STEPHEN L. PRUITT, Ph.D., VICE PRESIDENT, CONTENT, RESEARCH & DEVELOPMENT, ACHIEVE, INC.

Dr. Pruitt was named Vice President for Content, Research and Development in November of 2010. He joined Achieve, Inc. as the Director of Science in July of 2010. In addition to his new role, he will continue to lead the development of the Next Generation Science Standards. Achieve, Inc. is an independent, bipartisan, non-profit education reform organization that works closely with states and will develop a full set of internationally-benchmarked standards based on the National Research Council's Conceptual Framework.

Dr. Pruitt will provide science teachers with the background of the Conceptual Framework to Guide the Development of Next Generation Standards for K-12 Science Education. He will share where we are headed nationally. Open question and answer period will follow.

Chemosynthesis for the Classroom

Room: 1000

3-12, Science

Laney Heath, Mesa County Schools, Teacher of the Gifted

Richard Murphy, Ocean Futures, Marine Biologist

With the Gulf oil spill, many students have concerns about the impact of the disaster on marine and terrestrial environments. The disaster gives educators an opportunity to teach the importance of another biological synthesis, besides photosynthesis, which occurs in deepwater ecosystems. In this session, you'll make an observational deepwater chemosynthetic bacterial community for the classroom.

Bernoulli's Law Doesn't Suck

Room: 1008

6-8, Science

Camille Stegman, Virginia City Middle School, Storey County School District, Science Teacher

Robert Harington,

Jen Willden, Gallagher Elementary School, Teacher

Defy gravity, create an aerosol spray, and hover a ping-pong ball in this hands-on session on Bernoulli's Law

Outdoor Education in your Backyard

Room: 1100

K-12, Science

Beverly Lousignont, Bailey Middle School, Teacher

Participants will be given examples of the "How To" have their students become involved in outdoor education. Participants will realize that you do not need a bus or a permission form to engage students in outdoor education. Attendees will participate as a "student" learning in a hands-on style for outdoor education. Brainstorming and collaboration will be included in the experience. (Information and examples will also be given on field trips that require a bus!)

Session 7 – Saturday 2:00 p.m. to 3:20 p.m.

Applying Brain Research to your Classroom

Room: 1001

K-12, Math & Science

Fred Goerisch, Idaho State University/Buhl School District, Teacher

Learn how to raise your IQ while learning how to help your students raise their IQ by learning how the brain works

Digital Whiteboards in the K-8 Classroom

Room: 1004

K-8, Math & Science

Glenn Gordon, Pearson Education, Curriculum Specialist

Okay, you have that brand new digital whiteboard in your classroom, but are you using it as effectively as you could be? Using the digital features of your Pearson programs, this session will showcase how to use your interactive whiteboard more effectively and bring your classroom into the 21st century.

Edmodo: the Nerdy "Facebook" for teachers and students

Room: 1005

K-12, Math & Science

Merrie Rampy, Fernley High School, Lyon County School District, Teacher

Tired of blocked programs? Frustrated with the limited flexibility of district email and grading programs? Check out "edmodo", an interactive site that allows you to build your own groups, give and receive assignments, monitor and/or participate in student dialogues, and generally stay connected.

Going Green with Virtual Labs

Room: 1008

5-12, Science

Lou Loftin, NWRPDP, K-12 Science

Kelly Cannon, Washoe County School District, K-12 Science Coordinator

In this session teachers will be introduced able to use virtual labs in General Science, AP Bio, & AP Chem. The virtual labs fit well with the 5-E learning cycle. They can be used as an Engagement or Elaboration before or after the Experimentation. They are also a great tool for Evaluation with very little impact to our environment.

Using Scientific Reasoning in Baffling Situations

Room: 1010

K-12, Math & Science

Karl Marsh, Churchill County High School, Churchill County School District, Science Teacher

In this session participants will be involved in various scenarios that challenge their reasoning skills and their use of scientific thinking. All of these scenarios will be first presented as they would be done in the classroom, then a discussion with all participants will follow to best apply these methods to our own classes. This presentation is for grades K-12 and the methods can be modified to all grade levels and is cross-curricular.

Environmental Project Based Learning...Turning Trash into Flash!

Room: 1103

K-12, Science

Jennifer Neri, Tarkanian Middle School, 8th Grade Science Teacher

Heather Mounts, Tarkanian Middle School, Math Teacher

Have students turn their trash into flash to go green & get some green in return! Learn project ideas to use as fundraisers and spread environmental awareness. You will have the opportunity to learn how to create jewelry, household items, decorations, and much more. Check out the Trashion Show from the Environmental Youth Summit and the Water Bottle Revolution by the Alexander Dawson Foundation

Accomplished Teaching for Improving Learning for All Students

Room: 1108

K-12, General Session

Caprice Houston-Bey M.Ed., National University, School of Education Lead Faculty, NBCT

Jessica L. Nasset M.Ed., Myrtle Tate Elementary School, Kindergarten Teacher, NBCT

Stephanie Hawkes, Scherkenbach Elementary School, 5th Grade Teacher

With the emphasis on assessment data and pay for performance many teachers may be wondering if they are really making a difference in their classrooms. National Board Certification provides an opportunity for accomplished teachers to provide tangible evidence of their impact on student learning. Come hear what National Board Certification is and how National University can support the process.

Integrating Children's Literature with Big Ideas in Mathematics

Room: 1213

K-5, Mathematics

Jeff Shih, University of Nevada Las Vegas

Heidi Carr, Myrtle Tate Elementary School

Melissa Jaramillo, Paradise Professional Development School

In this session, we will discuss how elementary school students' use of conjecture can lead to understanding of big mathematical ideas. We will build on these big ideas through the use of children's literature and fables.

Integrating Investigations Technology: The Basics of SuccessNet

Room: 1216

K-5, Mathematics

Alicia O'Neil, Pearson, Curriculum Specialist

Investigations technology supports the teaching and learning in your classroom. If you have not been using SuccessNet, here is your opportunity to come get registered and learn the basics of all SuccessNet has to offer.

Calculus Labs - Let's Make it Real (Data That Is!)

Room: 1217

9-12, Mathematics

Carrie Hair, Northern Nevada Math Council, President-Elect

Throughout this session, participants will see how collecting real world data can apply to common calculus applications, including related rates, optimization, exponential growth/decay, and volumes with uniform cross sections. Have great fun completing 2 of the labs, while thorough explanations will be given for the others. Algebra adaptations for 2 of the labs will also be provided.

America's Idol? How the Contestant Most Voted For Doesn't Win

Room: 1219

9-12, Mathematics

Jason Gershman, Nova Southeastern University, Assistant Professor/Coordinator of Mathematics

Participants will engage in an interactive presentation where they will calculate means, expectations, biases, & proportions to determine if the American Idol competitor who got the most "counted" votes was the contestant who actually received the most votes due to a flawed & biased voting scheme exacerbated by geography, age, and gender.

Is paper-and-pencil computation necessary?

Room: 1221

K-12, Mathematics

Owen Nelson, CCSD Retired/UNLV/U of Phoenix, Adjunct Prof

The session will focus on computational problems observed while teaching remedial algebra to college students. Implications for all grade levels will be discussed. Audience participation will be encouraged.

Making Homework Meaningful

Room: 1309

6-12, Mathematics

Lisa Baehr, Washoe County RCTL (NMSLC), 6-12 Math Program Coordinator

Are you tired of students not doing homework or throwing it in the trash when you hand it back? Tired of hours of grading? Then come see how to make homework meaningful! This session will introduce you to the Homework PLC Resource guide (a Northwest Regional Professional Development publication) and help you rethink homework.

Math Games of Strategy

Room: 1311

6-12, Mathematics

Mike Sparrow, Pahrnagat Valley High School, Math Teacher

This presentation will investigate fun math games of strategy to develop critical thinking and reasoning skills. These games will enhance the learners ability with inductive and deductive reasoning as well as sample spaces.

Get Your Students Out of Their Chairs with Kinesthetic Activities

Room: 1313

K-12, Mathematics

Sarah Wilkin Ed.S, Buhl School District, School Psychologist

Holly Newell, Buhl Middle School, Teacher/Math

The presenters will provide the research behind the use of kinesthetic activities to reinforce math concepts and will share a number of activities to use in your classroom.

Customizing Your Algebra I Class For Struggling Students

Room: 1315

9-12, Mathematics

Dr. Robert Collins, iLearn Inc., CEO and Program Developer

Class of 1 gives you the ability to deliver a truly customized Algebra I curriculum for each student. This design is based on rigorous research on effective instructional methods for students having difficulty in Algebra I. See how Class of 1 only teaches “gaps” in each student’s math knowledge. Students get only the instruction they need, so there is no wasted time studying what they already know. This is the perfect program for Algebra readiness & Recovery.

Mathematical Misconceptions: Where Do They Come From?

Room: 1317

3-8, Mathematics

Martha Robertson, America's Choice, Math Content Specialist

Students get average scores in elementary mathematics but fall below grade level when they enter Middle School, and often hate math in high school. This session will examine common misconceptions that students' develop and where they develop. How do we as teachers identify when a mistake is a misconception and how do we address it to bring understanding to the student and increase achievement?

Get Caught Up in WebQuests: Connecting Content to Culture

Room: 1318

3-8, Math & Science

Sara Podlewski, Center on Disability Studies, College of Education, University of Hawaii at Manoa, Math Specialist

Norma Jean Stodden, Center on Disability Studies, University of Hawaii at Manoa, Associate Professor

Martha GuinanGuinan, Center on Disability Studies, University of Hawaii at Manoa, Educational Specialist

The Ka'imi loa o ka hihi Project gives teachers a tool to engage students in active, purposeful learning through the use of WebQuests. Each Ka hihi WebQuest: addresses a standard, targets grades 4-7 in Math/Science, provides differentiation to reach all learners, integrates elements of Native Hawaiian culture and employs best practices. Come explore <http://www.webquest.hawaii.edu/kahihi/> with us.

Session 8 – Saturday 3:30 p.m. to 4:50 p.m.

Differentiated instruction presentation for the science classroom

Room: 1001

K-12, Science

Robert Coggan, Garside Junior High School, Teacher

Llana Quain, Garside Junior High School, Teacher

The participants will see how to motivate all students, and how to use digital story telling as a tool for presentations. The participants will learn how to make a hybrid powerpoint presentation mixed with brain theories and learning theories, and science too.

Strategies for Reluctant Learners: Hamburgers, Hotdogs & Windows - Making Notetaking Accessible to All Students and Engage... make it so!

Room: 1002

K-12, Math & Science

3:30 p.m. until 4:10 p.m.

Leianne Whitley, Reed High School, Washoe County School District, Math Teacher, NBCT

Do your students dread taking notes? Do those notes sit in a notebook collecting dust? Do your students struggle organizing and processing content? In this workshop, participants will learn how to turn hamburgers, hotdogs, and windows into an interactive notetaking strategy that will enable all students to process and organize new content and create notes that they will actually use.

4:10 p.m. until 4:50 p.m.

Brian Zeiszler, Elko High School, Elko County School District, Biology Teacher

Shane Gilligan, Elko High School, Elko County School District, Ecology Teacher

Scott Guthrie, Elko High School, Elko County School District, Neurobiology/Psychology Teacher

Kelly Wintermote, Elko High School, Elko County School District, Physical Science/Biology Teacher

Whether your familiar with the 5E lesson design or not, we'll immerse you in the first of the five E's, Engagement. Learn new ideas or even twists on old ideas that will hopefully capture the attention of your most reluctant learners as you introduce a new concept, chapter or unit. Participants will receive handouts on all activities and a few lucky individuals will take home "prizes".

Leonardo's Workshop - Art , Math, and Science Explorations

Room: 1003

K-8, Other Area

Michael Henry, Paradise Professional Development School, Art Specialist

How the visual arts can contribute to advancing Depth of Knowledge of Math and Science concepts and vocabulary. A workshop presentation.

Art lessons plans utilizing instructional strategies and cross curriculum experiences with an emphasis on Math and Science test preparation

Make & take art/math lesson

Instructors can use these strategies and lessons without the benefit of an art specialist

The Metric System - What All Teachers Should Know and Teach

Room: 1005

K-12, Math & Science

Lou Loftin, NWRPDP, K-12 Science

In this session teachers will explore the connection between linear measurement, cubic volume, and liquid volume in metric units. This is the basics that all students and teachers need to know in order to be successfully literate in Science.

Climate Change Education in the Secondary Classroom

Room: 1009

Lawrence Rudd, Nevada State College, K-12 Science Education

Participants will be actively involved in lessons that emphasize climate change. Activities that address climate change issues and events on local, national, and global scales will be presented. A state-wide professional development program funded by Nevada's NSF EPSCoR grant for middle school teachers in both studying and teaching climate change will be described.

Scientific Literacy: Exploring New Delivery Systems - Using Graphic Novels to Extend Experiences and Science Starts with a Story

Room: 1100

6-12, Science

3:30 p.m. until 4:10 p.m.

Amy Page, University Of Nevada, Las Vegas Public Lands Institute, Project Manager Discover Mojave Outdoor World/ Forever Earth

Allyson Brody, UNLV Public Lands Institute, Project Manager

Are you looking for cool resources to use to engage your students in Science? Social Studies? Literacy? Have you been on some awesome field trips but just can't seem to extend those experiences into the classroom?

Graphic Novels can be the one tool to help you extend an experience. Graphic novels can be a powerful way to both connect with students and propel them forward academically.

4:10 p.m. until 4:50 p.m.

Richard Vineyard, NV Dept of Education, K-12 Science Education Specialist

In this session, participants will learn about using familiar (and not so familiar) childrens literature to provide the foundation for engaging students in learning about science and math.

MathXLforSchool - Award winning MS and HS Mathematics Support Program

Room: 1209

6-12, Mathematics

Dwight Heirendt, Pearson Education, Curriculum Specialist

MathXLforSchool is Pearson's CODIE award winning online mathematics teaching and intervention software. Come see the latest offerings and how this software can support all levels of mathematics learners. MathXLforSchool provides students with the support they need to be successful in all levels of mathematics - from basic skills through AP Calculus.

B- JAG

Room: 1215

6-12, Mathematics & Science

Douglas Johanson, Las Vegas High School, Mathematics Teacher

Changes were made at LVHS to the way we grade, the way we assess, and the way our students learn. This is a discussion of what was done, how it was done, and the results.

Integrating Investigations Technology: Beyond the Basics of SuccessNet

Room: 1216

K-5, Mathematics

Alicia O'Neil, Pearson, Curriculum Specialist

If you want to learn more about Investigations Technology, this session is for you. A hands-on opportunity to see SuccessNet and all it has to offer, including Success Tracker, Interactive white board lessons, Differentiated lessons, and Pearson online trainings.

Discovering Math Intervention For Elementary, Middle School and Algebra I

Room: 1315

3-12, Mathematics

Patrick O'Connell, iLearn Inc., Regional Accounts Sales Representative

Barbara Clark, Jerome Mack Middle School, Title I Math Teacher

Presentation of iPASS, a web-enabled, research based math intervention program that delivers math instruction using engaging graphic animation and natural voice narration. iPASS is not based on cartoons or a game format; it is real math as it appears on math assessments. Our program requires true mastery. Students cannot guess their way through the program, since it's not based on a multiple-choice format and they must generate their own answers. See how this program has improved student morale and confidence building at Jerome Mack Middle School. We will explore how iPASS is being implemented throughout the Clark County School District. Learn about our new, exciting Algebra Readiness and Recovery Program, Class of 1.

Mastering Measurement One Recipe at a Time

Room: 1319

K-12, Mathematics

Paula Ward, Hafen Elementary School, Nye County School District, Teacher

Trina Daffer, Pahrump Valley High School, Nye County School District, Teacher

This presentation will focus on the use of recipes to engage students in meaningful measurement. Food, fun, and science based recipes will be used.

Math Tricks to Engage Students in Middle School

Room: 1321

6-12, Mathematics

Deobra Solomon, Retired, T³ National Instructor

Participants will explore mathematical tricks to engage students using the TI-34 Multi-view calculator. They will also get ideas for exploring fractions and scientific notation using a calculator.



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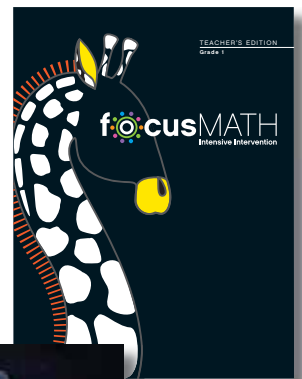
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