

2017 North Central ESD STEM Summit

Monday, August 14, 2017

8:30 a.m. - 9:20 a.m. - Orchard Exhibit South

Keynote - Camille Jones presents STEAM (Science, Technology, Engineering, Arts, Mathematics)

Camille Jones is the 2017 Washington State Teacher of the Year, as well as the 2017 NCESD Regional Teacher of the Year. She works as a STEAM Specialist in the Quincy School District, Pioneer Elementary STEAM Lab where she offers challenging activities in Science, Technology, Engineering, Art and Mathematics.

9:30 a.m. - 12:00 p.m. Session 1

Early Learning (Counting and Cardinality) with instructor Patty Iniguez

Early learning mathematics professional development modules primarily focus on teachers of Pre-K-K. The Counting and Cardinality module helps participants understand what children must learn in order to work with the counting sequence and understand the quantity associated with each number. Participants will explore these topics by doing hands-on activities associated with each.

Grade 6 New NGSS Aligned STC Science Kit: Electricity, Waves, Info Transfer with instructor Mechelle LaLanne

All New! The Smithsonian's STCMS™ is research-based science instruction rich in experiential phenomena and engineering design. Instruction that goes beyond meeting the NGSS standards, STCMS™ steps up to the challenge of meeting the 5 Innovations of NGSS. Participants will identify the key instructional units to address the new standards. Focus will include: Three-dimensional learning; Coherent learning progression; Phenomena and design solution; Integrated Engineering and the Nature of Science; Math and literacy connected with science content.

Eureka Math - Grades K-2 with instructor Katelyn Walsh

Introducing the ins and outs of great instructional strategies, pacing modifications and adjusting the assessments within each grade band.

Grade 8 New NGSS Aligned STC Science Kit: Space Science Explorations with instructor Stephanie Ball

All New! The Smithsonian's STCMS™ is research-based science instruction rich in experiential phenomena and engineering design. Instruction that goes beyond meeting the NGSS standards, STCMS™ steps up to the challenge of meeting the 5 Innovations of NGSS. Participants will identify the key instructional units to address the new standards. Focus will include: Three-dimensional learning; Coherent learning progression; Phenomena and design solution; Integrated Engineering and the Nature of Science; Math and literacy connected with science content.

ARC GIS Story Maps with instructor Kristen Bates

Learn to combine authoritative maps with narrative texts, images, and multimedia content. They make it easy to harness the power of maps and geography to tell your story.

PBL-Global Goals with instructor Camille Jones

The PBL Global approach to education includes a powerful field-tested model of project-based learning (PBL) that invites inquiry, innovation, creativity, and intellectual depth. This model aligns with a systematic redesign of schools and learning environments by integrating PBL with a high-performance culture, whole-child principles, teacher discovery and empowerment.

Test/Item Specs with instructor Sasha Hammond

Review of the Test and Item Specs and how to integrate them into your classroom assessments.

Understanding Google G Suite Basics with instructor Ron Brown

This beginner course will introduce attendees to using basic Google tools. Learn how to access G Suite and navigate your Google account, as well as use basic G Suite tools like Docs and Gmail. Attendees will also gain

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exposure to other popular Google tools along the way. Access to an educational or personal Google account is required.

Using Google Tools to Manage Your Classroom with instructor Ray Birks

Google Classroom is a great tool that allows teachers to host a digital classroom. Teachers will learn the benefits of doing all of their work in G Suite and delivering it electronically to students. Attendees will learn how to setup a classroom & calendar, add students, announcements, assignments, quizzes and poll questions. Come and learn how easy Google makes it to manage a digital classroom. Access to an educational or personal Google account is required.

Data Collection and Analysis with Google Forms & Sheets with instructor Mark Woolsey

The combination of Google Forms & Sheets provides a powerful weapon to collect and manage data. Attendees will learn how to create a Google form to gather information from staff, parents and students, then use Google Sheets to analyze, sort and format the resulting data in a spreadsheet. A basic knowledge of G Suite is helpful but not required. Access to an educational or personal Google account is required.

Effective Communication with Google Tools with instructor TBD

Using free Google tools, we'll explore how to effectively communicate with students, parents and your community. We'll create a website with the new Google Sites, learn the ins and outs of Google Calendar, explore communication tools built into Google Classroom and Blogger, and gain a useful understanding of Google Hangouts/Meet. Access to an educational or personal Google account is required.

**12:00 p.m. - 1:00 p.m.
Orchard Exhibit South Room**

Lunch

1:00 p.m. - 3:30 p.m. Session 2

Science HS OER with instructor Andy Boyd

This session will highlight the work of multiple teachers and districts across the state who developed and will implement a high school NGSS first year course. This course is developed around the Achieve conceptual course bundles. These course bundles identify which performance expectation could be grouped together to form units of instruction. The course bundle for year one of high school is comprised of 27-performance expectation divided among 6 four-week long units. Participants will be giving information to access and implement this open educational NGSS high school science course.

Grade 6 New NGSS Aligned STC Science Kit: Weather & Climate with instructor - Mechelle LaLanne/Annette Jouard

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Eureka Math - Grades 3-5 with instructor Katelyn Walsh

Introducing the ins and outs of great instructional strategies, pacing modifications and adjusting assessments within each grade band.

Grade K New NGSS Aligned Science Kit: Living Things & Their Needs with instructor TBD

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Phenomena and design solution; Integrated Engineering and the Nature of Science; Math and literacy connected with science content.

Early Learning (Operations and Algebraic Thinking) with instructor Patty Iniguez

The Early Learning Mathematics professional development modules primarily focus on teachers of Pre-K-K. In the Operations and Algebraic Thinking module, participants develop an understanding of how children connect different meanings, interpretations and relationships with the operations of addition and subtraction. Participants will explore these topics by doing hands-on activities associated with each.

Test/Item Specs (Repeat) with instructor Sasha Hammond

Review of the Test and Item Specs and how to integrate them into your classroom assessments.

Understanding Google G Suite Basics with instruction Ron Brown

This beginner course will introduce attendees to using basic Google tools. Learn how to access G Suite and navigate your Google account, as well as use basic G Suite tools like Docs and Gmail. Attendees will also gain exposure to other popular Google tools along the way. Access to an educational or personal Google account is required.

Using Google Tools to Manage Your Classroom with instructor Ray Birks

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2017 North Central ESD STEM Summit

Tuesday, August 15, 2017

8:30 a.m. - 9:20 a.m.

Orchard Exhibit South Room

Keynote - Pete Phillips presents Future Proof Teachers

9:30 a.m. - 12:00 p.m. Session 1

Computer Science Overview K-12 with instructor TBD

Effective and relevant computer science education is essential to achieving our vision that “every student is ready for college, career, and life.” While attention to computer science education has increased in recent years, a lack of awareness about its content and potential impact is widespread.

Grade 6 New NGSS Aligned STC Science Kit: Structures & Function with instructor Mechelle LaLanne

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Eureka Math Grades 3-5 with instructor Katelyn Walsh

Introducing the ins and outs of great instructional strategies, pacing modifications and adjusting the assessments within each grade band.

Grade K New NGSS Aligned Science Kit: Weather and Sky with instructor TBD

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Intro to ARC GIS Apps with instructor Kristen Bates

Introduction to ARC GIS online. Replace unreliable paper based data collection with a trustworthy digital solution that fits the needs of educators and their students in outdoor and diverse environments.

Microsoft in Education - OneNote with instructor Shannon Fallon

Embrace a growth mindset and explore innovative ways Microsoft Office 365 for Edu technologies such as OneNote Class Notebooks, Sway, Microsoft Classroom, and Office Mix combined with STEAM curriculum can transform student learning.

Learning Stations Grades 6-8 with instructor Sasha Hammond

Develop stations, centers, and/or menus to deepen student engagement, content understanding, and best practice. Learn from best practice on how to build and implement these routines into any classroom with an integrated approach.

Robotics Are Elementary with Dash and Dot with instructor Joe Lively

In this course you will learn to use the Dash and Dot robot kits to teach students programming. This engaging class will have you ready to go for the fall and you will leave the training with access to the curriculum and a Dash and Dot robot pack. Team up with others to have enough robots to rotate them in your team.

12:00 p.m. - 1:00 p.m.

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Orchard Exhibit South Room Lunch

1:00 p.m. - 3:30 p.m. Session 2

GameSalad with instructor Patty Iniguez

Informational session designed to introduce GameSalad and its easy-to-use tools that do not require programming or computer science backgrounds to teach. Used in classrooms to motivate and teach computer science through a project-based curriculum including ready-to-use projects, activities, tutorials and assessments to meet STEM initiatives. Learn about logic, variables, functions, looping, optimization, and much more without the frustrations of traditional syntax.

Grade K New NGSS Aligned Science Kit: Push, Pull, Go! with instructor TBD

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Eureka Math Grades K-2 with instructor Katelyn Walsh

Introducing the ins and outs of great instructional strategies, pacing modifications and adjusting the assessments within each grade band.

Grade 7 New NGSS Aligned STC Science Kit: Matter & Its Interactions with instructor TBD

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Number Talks with instructor TBD

Number Talks (Mathematical Discourse) is a way to provide students the opportunity in a safe environment to express their own mathematical reasoning and learning from the viable arguments of others (SMP3). Explore the power of Number Talks and how to incorporate them as a daily routine in your classroom.

New 1st-5th Grade Science Kits with instructor Mechelle LaLanne

Come learn about the rigorous research and development process behind the STC program that the NCESD STEM Cooperative will be implementing beginning in the fall of 2018. It ensures the learning experiences contained in each unit reflect current scientific thinking, are pedagogically sound, and are developmentally age appropriate for students as well as aligned to the NGSS.

Learning Stations Grades K-5 with Sasha Hammond

Develop stations, centers, and/or menus to deepen student engagement, content understanding, and best practice. Learn from best practice on how to build and implement these routines into any classroom with an integrated approach.

Robotics are Awesome with the Scribbler with instructor Joe Lively

In this course you will learn to use the Scribbler robot kits to teach students programming. This engaging class will have you ready to go for the fall and you will leave the training with access to the curriculum and a Scribbler robot pack. Team up with others to have enough robots to rotate them in your team.

2017 North Central ESD STEM Summit

Wednesday, August 16, 2017

8:30 a.m. - 9:20 a.m.

Orchard Exhibit South Room

Keynote - Linda McKay - Meet your NCESD STEM Team

9:30 a.m. - 12:00 p.m. Session 1

Computer Science - Science (Full Day 1 of 2) with instructor Mechelle LaLanne

(LAPTOP REQUIRED) Code.org's middle school science program connects computer science to science through computer modeling and simulation. Based on a crosswalk identifying areas of overlap between the NGSS and Computer Science Teachers Association K-12 Computer Science Standards, the modules address performance expectations in both standards. The introductory module introduces computer modeling and simulation, while the following three modules replace existing modules in Earth, Life and Physical Science. Each module consists of five lessons that augment educational outcomes of traditional science instruction to include computational thinking in the process of modeling and simulation.

Grade 7 New NGSS Aligned STC Science Kit: Earth's Dynamic Systems with instructor TBD

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Open Up Resources - with instructor Patty Iniguez

Overview of the Open Up Resources curriculum. With Open Up Resources Middle School Math, a new problem-based math curriculum and open educational resource authored by Illustrative Mathematics, we've taken the "I do, we do, you do" out of learning mathematics to make math more relevant and easier for students to personalize and understand.

Number Talks with instructor TBD

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First Robotics with instructor Randy Steele

A cross-curricular, highly flexible, program which integrates math, science, technology, and engineering. It is aligned with CTE, math and science standards. Teachers can customize lessons to meet the needs and interests of their classroom.

Understanding the SBAC for Student Growth with instructor Anton Jackson, OSPI

Find methods to use SBAC Data to drive instruction.

Rich Tasks Grades K-12 with instructor Sasha Hammond

Deepen your understanding of the Common Core Standards. Whether this course is an introduction or a chance for further growth, you will finish with more knowledge and a list of usable and relevant resources for your grade level(s).

Understanding Google G Suite Basics with instructor Ron Brown

This beginner course will introduce attendees to using basic Google tools. Learn how to access G Suite and navigate your Google account, as well as use basic G Suite tools like Docs and Gmail. Attendees will also gain exposure to other popular Google tools along the way. Access to an educational or personal Google account is

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required.

Using Google Tools to Manage Your Classroom with instructor Ray Birks

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12:00 p.m. - 1:00 p.m.
Orchard Exhibit South Room
Lunch

1:00 p.m. - 3:30 p.m. Session 2

Computer Science - Science (Full Day 1 of 2 continued) with instructor Mechelle LaLanne

- Continued -

Grade 7 New NGSS Aligned STC Science Kit: Ecosystems & Their Interactions with instructor TBD

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Problem Solving and the 5 Practices with instructor Chris Kalmbach

Take part in rich tasks and discuss lesson outline/structure and differences between direct instruction and problem based learning to provide the opportunity for mathematically productive discussions. Mini-activities will be introduced to further develop teachers' understanding of practices 1 - Anticipating, 3 - Selecting, 4 - Sequencing and 5 - Connecting.

New 1st-5th Grade Science Kits with instructor TBD

Come learn about the rigorous research and development process behind the STC program that the NCESD STEM Cooperative will be implementing beginning in the fall of 2018. It ensures the learning experiences contained in each unit reflect current scientific thinking, are pedagogically sound, and are developmentally age appropriate for students as well as aligned to the NGSS.

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Early Learning (Geometry) with instructor Patty Iniguez

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Participants will explore the early learning pathways for geometry and develop a deeper knowledge of how children progress in their understanding of geometry and spatial sense. Participants will engage in hands on activities that can be easily replicated in the classroom to further develop students' understanding of geometric concepts.

Rich Tasks Grades K-12 with instructor Sasha Hammond

Deepen your understanding of the Common Core Standards. Whether this course is an introduction or a chance for further growth, you will finish with more knowledge and a list of usable and relevant resources for your grade level(s).

Understanding Google G Suite Basics with instructor Ron Brown

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Effective Communication with Google Tools with instructor TBD

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Thursday, August 17, 2017

8:30 a.m. - 9:20 a.m.

Orchard Exhibit South Room

Keynote - Apple STEM and GWATA presents STEM Professionals Panel

9:30 a.m. - 12:00 p.m. Session 1

Computer Science - Algebra (Full Day) with instructor Andrew Hickman

(LAPTOP REQUIRED) An introduction to middle and high school math teachers to Code.org/Bootstrap CS in Algebra curricular modules. Computer Science in Algebra modules support the Common Core -Math standards as well as NGSS Science and Engineering Practices Participants will be provided with all curriculum and materials to deliver the module in their classrooms.

Computer Science - Science (Day 2 of 2) with instructor Mechelle LaLanne

(LAPTOP REQUIRED) - Continued -

Grade 8 New NGSS Aligned STC Science Kit: Energy Forces & Motion with instructor Stephanie Ball

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Grades K-12 Bringing the Math practice Alive in the Classroom with instructor Jeff Crawford

Come experience rich tasks and teacher moves that bring the Standards for Mathematical Practice (SMPs) to life in your classroom. We will explore the nature of each SMP as we dig into numerous tasks. Our discussions will center on teacher moves and student expectations that promote each SMP. Walk away with ready to implement, rich tasks and readily adaptable teaching moves that target each of the SMPs.

Code.org with instructor Patty Iniguez

(LAPTOP OR TABLET REQUIRED) Participants will learn how to teach computer science skills such as critical thinking, logic, persistence and creativity in problem-solving aligned to all subject areas. Computer science and computational thinking skills will be addressed through hands-on "unplugged" and online activities, including computer programming and coding.

HS OER with instructor Andy Boyd

This course is developed around the Achieve conceptual course bundles. These course bundles identify which performance expectation could be grouped together to form units of instruction. The course bundle for year one of high school is comprised of 27-performance expectation divided among 6 four-week long units. Participants will be giving information to access and implement this open educational NGSS high school science course.

RTI Number Sense Grades K-8 with instructor Sasha Hammond

Increase depth of understanding of math learning progressions; examine how to diagnose students' levels of understanding within the areas of problem solving, place value, basic facts, calculation, and fractions; look at a system for progress monitoring and how to use data to drive instruction; and experience learning activities to implement in the classroom.

Technology EdCamp "The Unconference" with instructor Ron Brown

Edcamp is a form of unconference designed specifically for teachers and their needs. Unlike traditional conferences which have schedules set months in advance by the people running the conference, Edcamp has an agenda that's created by the participants at the start of the event. This version will focus on technology

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tools, sites, and strategies for the future looking classroom. We will run three simultaneous rooms after formulating our agenda, and will have three half-hour sessions.

12:00 p.m. - 1:00 p.m.
Orchard Exhibit South Room
Lunch

1:00 p.m. - 3:30 p.m. Session 2

Computer Science - Algebra (Full Day) with instructor Andrew Hickman

- *Continued* -

Computer Science - Science (Day 2 of 2) with instructor Mechelle LaLanne

- *Continued* -

Grade 8 New NGSS Aligned STC Science Kit: Genes & Molecular Machines with instructor TBD

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Grades 6-10 Deeply Understanding Proportional Reasoning with instructor Jeff Crawford

Looking beyond the quick “cross multiply and divide” procedure, we will experience the multiple facets of proportional reasoning. We’ll see how arithmetic from elementary makes way for abstract algebraic thinking with deep understanding of proportional relationships. Come learn the many tools and aspects of proportional reasoning.

GameSalad with instructor Patty Iniguez

Informational session designed to introduce GameSalad and its easy-to-use tools that do not require programming or computer science backgrounds to teach. Used in classrooms to motivate and teach computer science through a project-based curriculum including ready-to-use projects, activities, tutorials and assessments to meet STEM initiatives. Learn about logic, variables, functions, looping, optimization, and much more without the frustrations of traditional syntax.

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