

**2018 AATM Conference Schedule**  
**Saturday, Sept. 22<sup>nd</sup> at ASU Polytechnic**  
**7001 E. Williams Field Rd.**  
**Mesa, AZ 85212**

**Conference Onsite Registration: 7:30 – 8:00**

**Keynote Speaker: 8:00 – 9:00**

**Conference Sessions: 9:15 – 3:50**

The following is a detail summary of sessions for the conference. (There may be some variation of schedules and times.)

**Session 1:**

- Speaker:** Jenny Bay Williams **Time:** 9:15 - 10:30  
**Room:** Santan 331 **Audience:** K-5
- Title:** *Teaching and Assessing Basic Facts with Fluency in Mind*
- Summary:** Description: In this session we will explore 5 fundamental truths that support basic fact fluency for every student. The approach prioritizes number relationships and strategies. We will explore quick images, many games, and effective assessment tools (to replace timed tests) that increase students' enjoyment of math and their fluency with basic facts. All games and tools will be made available to you!
- Speaker:** Joanie Funderburk **Time:** 9:15 - 10:30  
**Room:** Santan 135 **Audience:** 3<sup>rd</sup>-HS, Admin, Teacher Leaders
- Title:** *Who's Doing the Work? Shifting the Cognitive Lift in Math Class*
- Summary:** All too often, well intentioned math teachers use instructional strategies that take the cognitive load away from students, and impede their ability to persevere with mathematics. This session will explore instructional practices and concrete strategies teachers can use to leverage the amount of time students are talking, thinking, and working on mathematics.
- Speaker:** Barbie Buckner **Time:** 9:15 - 10:30  
**Room:** Peralta 135 **Audience:** PreK-High School, General
- Title:** *NASA's Solar System Pocket Scroll: Using Measurement, Ratio, and Scale*
- Summary:** Come explore applications of measurement, ratios, and scale with this "out of this world" hands-on standards-aligned STEM activities. Engage with NASA, space, and our universe as you apply scale to distance, time, and size. Learn how to apply fractions to our solar system by making a pocket solar system scroll while using unique NASA content to apply ratios and scale. See how this activity can be scaled down and focus on measuring or scaled up to include conversions.
- Speaker:** Stephanie Bainbridge **Time:** 9:15 - 10:30  
**Room:** Santan 339 **Audience:** PreK-2<sup>nd</sup> Grade

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Title: *Rolling Into Math Grades K-2*

Summary: Come prepared to play games that incorporate the use of both cards and dice that teach the following concepts: number sense, fact fluency, place value, greater than and less than, and more. Get your students excited about math. Game play is a powerful tool that allows all students to share their ideas and understanding of math concepts with each other. Participants will leave with game-boards, ideas for differentiating and math journals. Great for regular, ELL and RTI students.

**Speaker:** **Kelly Cota**

**Time: 9:15 - 10:30**

**Room: Santan 131**

**Audience: 6<sup>th</sup> Grade-High School**

Title: *Desmos for Grades 6-12*

Summary: Explore math with Desmos! Plot functions, create tables, add sliders, animate your graphs, and more -- all for free. Aimed at beginning or novice users of Desmos, participants will experience first-hand how this free tool can enhance learning in their classroom.

**Speaker:** **Mona Toncheff**

**Time: 9:15 - 10:30**

**Room: Peralta 313**

**Audience: Administrators & Teacher Leaders**

Title: *Supporting Lesson Design with Instructional Rounds*

Summary: How do teacher teams make connections between content, process standards, and NCTM's Mathematical Teaching Practices? Intentional lesson design and reflection are the keys to unlocking this question. Explore tools and strategies within instructional rounds to create and reflect upon lessons that promote mathematical understanding.

**Speaker:** **Janelle Chisholm**

**Time: 9:15 - 10:30**

**Room: Peralta 314**

**Audience: General**

Title: *Clever Conundrums- Problems to Tackle*

Summary: Join us as we explore 3 interesting problems that require you to think outside the box. You will stretch your thinking, while engaging in meaningful dialogue.

**Speaker:** **Holly Crowson**

**Time: 9:15 - 10:30**

**Room: Peralta 310**

**Audience: 6<sup>th</sup>-8<sup>th</sup> Grade**

Title: *Changing It Up: Making Math Visible*

Summary: How do you encourage deeper student thought to show conceptual understanding? How do you teach the mathematical practices? This interactive session involves several hands-on activities to encourage multiple representations using graphic organizers, integer chips, algebra tiles, and Desmos. We will reflect on high impact strategies and how to connect concepts to real life applications. Participants are involved as both students and teachers. We will wrap up with a challenge of creating and sharing a rich task using ordinary objects. Please join me for some fun!

**Speaker:** **Betsy Mays**

**Time: 9:15 - 10:30**

**Room: Peralta 120**

**Audience: 6<sup>th</sup>-8<sup>th</sup> Grade**

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**Title:** *4 Things All Teachers Should Do When Teaching Integers*  
**Summary:** Don't let negativity get you down. Use creative strategies to have a positive experience teaching the ups and downs of integers. Focusing on several NS standards and the 8 MP's, you will leave with lessons and activities to engage your students.

**Speaker:** **Judy King** **Time: 9:15 - 10:30**  
**Room: Peralta 210** **Audience: 6<sup>th</sup>-8<sup>th</sup> Grade, High School**

**Title:** *Lockbox Activity in a HS Classroom*  
**Summary:** Students enjoy exciting, fun, and engaging activities when reviewing concepts. Adapting a general review to a lockbox activity requires students to work in a team to solve a variety of challenges in order to open multiple locks and earn a reward. This activity reinforces checking work for errors as errors will block students from opening their locks successfully. Strategies for creating your problems/clues will be given as well as ideas for managing materials for transitions between classes.

**Speaker:** **Terry Walsh** **Time: 9:15 - 10:30**  
**Room: Peralta 309** **Audience: High School**

**Title:** *MMI: Mathematical Modeling Investigations*  
**Summary:** MMI is coming to a math classroom in your school. This new TV (Teaching Variation) series will use technology to investigate mathematical modeling problems more closely than ever before. We will solve the mystery of why model rocket launch problems have long missed seeing important connections. We will investigate how Ferris wheels problems offer more mathematical applications sinusoidal graphs. We will also preview a variety of Differential Calculus concepts that Algebra 1 and Algebra 2 students can explore. Middle School students who have learned about rates of change may investigate these same problems without the need for using graphing technology!

## **Session 2:**

**Speaker:** **Kimberly Rimbey** **Time: 10:45-11:35**  
**Room: Santan 331** **Audience: Administrators & Teacher Leaders**

**Title:** *Leading Change: Three Mistakes Leaders Make Without Even Knowing It*  
**Summary:** Join us to discover three massive mistakes you may be inadvertently making that sabotage the very math achievement you work so hard to promote. You will leave this interactive session with practical collaboration tools and turnaround strategies you and your colleagues can use to address each of these mistakes and improve the mathematics teaching and learning in your school or district. Bring home these targeted approaches to turn mistakes into strategies for success.

**Speaker:** **Joanie Funderburk** **Time: 10:45-11:35**  
**Room: Santan 135** **Audience: 3<sup>rd</sup> Grade-HS, Teacher Leaders**

**Title:** *Let's Talk Math: Supporting Students with Mathematical Language Routines*

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**Summary:** The ability to reason mathematically is strongly linked to mathematics language development. This session will explore Stanford University's framework for organizing instructional strategies and special considerations to support students in learning mathematics practices, content, and language.

**Speaker:** **Barbie Buckner** **Time: 10:45-11:35**  
**Room: Peralta 135** **Audience: 3<sup>rd</sup> Grade-High School**

**Title:** *Using NASA's International Space Station Microgravity: Mass vs Weight*

**Summary:** Come learn about calculating the difference between mass and weight. Engage in “out of this world” hands-on, standards-aligned STEM experiments. Experiment with activities that demonstrate the difference between mass and weight, analyze your experimental data by creating tables, charts and graphs, and finally compare your results with similar experiments performed on-board the International Space Station in micro-gravity by Expedition 20 NASA astronauts Robert Thirsk, Koichi Wakata and Nicole Stott.

**Speaker:** **Stephanie Bainbridge** **Time: 10:45-11:35**  
**Room: Santan 339** **Audience: 3<sup>rd</sup>-5<sup>th</sup> Grades**

**Title:** *Power Play- Games for Teaching Elementary Place Value Grades 3-5*

**Summary:** Come prepared to play games that incorporate the use of cards, dice and number lines that teach the following concepts: naming, ordering and comparing numbers from tens to millions, expanding and rounding, decimals, number patterns and more. Participants will leave with game-boards, ideas for differentiating, journal writing and math talk extensions. Student samples will be shared. Our best strategies and new Box Cars place value games will be taught.

**Speaker:** **Nanci Smith** **Time: 10:45-11:35**  
**Room: Santan 131** **Audience: Kindergarten-High School**

**Title:** *Every Math Learner*

**Summary:** Why is it that math seems to be so challenging for so many students? There are many explanations as to why math starts out being one of the most favored school subjects by students in primary grades, but quickly moves to one of the most hated subjects. In this workshop Nanci addresses the impact of students' differences on instruction and how those differences can be addressed through math instruction that emphasizes conceptual understanding along with procedural fluency. Specifically, participants will:

- Explore multiple ways to assess and address students' differences in learning mathematics
- Explore many strategies for addressing student differences through rigorous instruction.
- Participate in hands-on activities, which come directly out of the presenter's classroom.

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**Speaker:** **Patty Low** **Time: 10:45-11:35**  
**Room: Peralta 313** **Audience: PreK-8<sup>th</sup>, Admin, Teacher Leaders**  
**Title:** *SWAG – Students with a Goal*  
**Summary:** Growth mindset starts with believing in your students by providing quality instruction. Math fact fluency goal setting supports math standards while developing automaticity which is effortless recall of arithmetic facts. Goal setting with students identifies the how and why math fact fluency is needed while developing perseverance in meeting goals. Reflex Math provides the high-quality resource that is adaptive and individualized instruction.

**Speaker:** **Janelle Chisholm** **Time: 10:45-11:35**  
**Room: Peralta 314** **Audience: General**  
**Title:** *Teaching math to Students in Trauma*  
**Summary:** Many students experience ACES (adverse childhood experiences) at home. Join us for strategies to help your students learn math effectively. Handouts will be given and practical ideas shared.

**Speaker:** **Allison Davis** **Time: 10:45-11:35**  
**Room: Peralta 310** **Audience: PreK-2<sup>nd</sup> Grade**  
**Title:** *Counting, Cardinality & Coding: Making Connections to Number Sense*  
**Summary:** We all know that counting and cardinality are important in K-2, but what about coding? During this session, you will be exposed to how coding is appropriate for K-2 students and how it can be integrated into your daily lessons to increase number sense and create a game atmosphere. Classroom clips and lesson resources will be shared.

**Speaker:** **Allyson Seale** **Time: 10:45-11:35**  
**Room: Peralta 120** **Audience: PreK-2<sup>nd</sup> Grade**  
**Title:** *Unlocking Word Problems— Without Key Words*  
**Summary:** How can you ensure that all of your learners, including English Language Learners, actually understand word problems? In this session, participants will learn strategies to teach problem solving to culturally and linguistically diverse learners using multiple approaches. Strategies will include connections to the ELP standards and a focus on precision in language. Participants will walk away with easy to integrate ideas and resources that can be implemented in your classroom the following day!

**Speaker:** **Lori Everson** **Time: 10:45-11:35**  
**Room: Peralta 210** **Audience: PreK-2<sup>nd</sup> Grade**  
**Title:** *Talk Math, Play Math, Do Math*  
**Summary:** Get out of the textbook and easily differentiate your lessons through use of card, dice, and 100-Board games! This session will focus on standards-based teaching and differentiation based on readiness, learning profile, and interest. Engage in math games and ready-to-use ideas, while walking away with templates that can be used with a variety of math activities. Applying concepts from Every Math Learner (Nanci Smith),

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Math Talks (Sherry Parrish), and Reinventing Arithmetic (Constance Kamii), learn how to truly and easily differentiate to include talking math, playing math, and DOING math!

**Speaker:** **Joe Werner** **Time: 10:45-11:35**  
**Room: Peralta 207** **Audience: 6<sup>th</sup>-HS, Admin, Teacher Leaders**  
**Title:** *Standards Based Instruction and Grading in the Secondary Math Class*  
**Summary:** Learn about the fundamentals of standards-based instruction and grading through the perspective of a secondary math teacher. Discover how to shift your grading procedures from practice and compliance to growth and proficiency without sacrificing student accountability. Explore ways in which you can use the Arizona Mathematics Standards to guide instruction, assess understanding, and report with accuracy. Explore strategies that help promote sound standards-based instructional strategies on both the individual classroom level to an entire system.

**Speaker:** **Kelly Hawley** **Time: 10:45-11:35**  
**Room: Peralta 309** **Audience: 6<sup>th</sup>-8<sup>th</sup> Grades**  
**Title:** *Lego Your Fear of Combining Like Terms*  
**Summary:** I will teach/show you how to visually explain combining like terms to your 7th graders or as a refresher to 8th graders, using Legos and some creativity. This can be a difficult concept to understand, and this can help the visual learner to conceptualize this abstract concept. Come play with Legos with me!

**Speaker:** **Amy Tixier** **Time: 10:45-11:35**  
**Room: Santan 222** **Audience: PreK-5<sup>th</sup> Grades**  
**Title:** *Setting the Stage for Mathematics- Cultivating Classroom Climate*  
**Summary:** What is the determining factor in creating a classroom that is rich in mathematical discourse and discovery? It is the creation of a collaborative classroom climate that is built on respect, trust, and confidence. Learn how to create a climate in your classroom that empowers all students by making math lessons truly collaborative and engaging by using practical strategies that build communication, collaboration, and acceptance while improving mathematical understanding and application.

**Speaker:** **Angela Rico & Monica Garofalo** **Time: 10:45-11:35**  
**Room: Santan 215** **Audience: 6<sup>th</sup> Grade-High School**  
**Title:** *Why are you so Square?*  
**Summary:** In this session, you will learn a fun hands on approach to learning squares and square roots. We will be using color tiles and graph paper to develop the understanding of these concepts. The tools will be used to find solutions to, squares, rational square roots and approximations of irrational square roots. Join us on a fun learning experience.

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- Speaker:** **Kim Rimbey** **Time: 1:30-2:45**  
**Room: Santan 331** **Audience: PreK-1**
- Title:** *Easy as 1-2-3: How Does Numeracy Parallel Literacy in the Early Grades? (PreK-1)*
- Summary:** Want to build a foundation for math success in the early grades? This hands-on session includes opportunities to explore strategies that build early numeracy while creatively examining how numeracy development parallels that of literacy. Furthermore, we'll examine how learning math develops language in the early years, but the reverse is not true. Take-back-to-your-classroom-tomorrow strategies will be included!
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- Speaker:** **Carole Greenes** **Time: 1:30-2:45**  
**Room: Santan 135** **Audience: 6<sup>th</sup>-8<sup>th</sup> Grade**
- Title:** *Developing Algebraic Reasoning through Measurement Explorations*
- Summary:** Big ideas of algebra (representation, variable, equality and equations, functions, and proportional reasoning) and of measurement (units, scale, conversions, formulas) will be described and illustrated with problems that demonstrate the application of those concepts from both domains. Projects (including students authoring puzzles) and games that provide additional practice with the big ideas will be presented. Participants will leave with packets of materials to use with their students.
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- Speaker:** **Barbie Buckner** **Time: 1:30-2:45**  
**Room: Peralta 135** **Audience: 3<sup>rd</sup>-High School**
- Title:** *NASA's Fly by Math: Using Aeronautics with Time Rate Distance Problems*
- Summary:** Use NASA Aeronautics LineUp with Math to understand, simulate and solve real world problems. Use the FlyBy Math simulator with a side-by-side layout to conduct experiments, analyze, and solve traditional distance-rate-time problems in air traffic control. Students can manipulate planes on their routes, the corresponding distance vs. time graph, and the equation of each line on the graph. Change one representation and the others automatically. Learn about NASA's FREE Sector 33 App that extends this concept to a mobile device. Walk away with additional supporting resources.
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- Speaker:** **Stephanie Bainbridge** **Time: 1:30-2:45**  
**Room: Santan 339** **Audience: 3<sup>rd</sup>-8<sup>th</sup> Grade**
- Title:** *Math Fun"die"mentals- Grades 3-8 Math Games*
- Summary:** Come prepared to play games that incorporate the use of both cards and dice that teach the following concepts: all operations including order of operations, multi-digit work, fractions, algebra, and more. Learn ways to engage and motivate your students that allow for effective practice. This workshop will be especially helpful for middle years students who are struggling with elementary basics and need to rebuild and reteach underlying concepts. Participants will leave with game-boards, ideas for differentiating and math journals. Great for regular, ELL and RTI.
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- Speaker:** **Jane Gaun** **Time: 1:30-2:45**



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**Summary:** During this session, participants will learn how to use Model Drawing to solve, and conceptually understand, word problems with fractions.

**Speaker:** **Barbara Boschmans** **Time: 1:30-2:45**  
**Room: Peralta 207** **Audience: Audience: 3<sup>rd</sup>-8<sup>th</sup> Grade**

**Title:** *Divide and Conquer: Digging Deeper Into Division*

**Summary:** Join me to dig deeper into the meaning of division and participate in some activities that you can take back to your classroom. We will explore whole number and fraction division.

**Speaker:** **Terry Walsh** **Time: 1:30-2:45**  
**Room: Peralta 309** **Audience: High School**

**Title:** *Previewing an Integral Part of Calculus*

**Summary:** Learn how students can preview Integral Calculus in middle school and high school. We will investigate Integral Calculus problems using grade appropriate mathematics. We will use area formulas, estimation some and use graphing technology to explore the area problems that preview Calculus! Come and see how your 6th grade through Algebra 2 students can do Calculus!

**Speaker:** **John Jung** **Time: 1:30-2:45**  
**Room: Santan 222** **Audience: 6<sup>th</sup> Grade-High School**

**Title:** *Teaching About Population and the Environment with Mathematical Models*

**Summary:** In this interdisciplinary workshop discover how mathematical models can be used to bring current events and top global challenges into the math classroom. Explore population growth models, probabilistic projections, and cartograms, and use models to illustrate carbon emissions over time. Receive lesson plans in an electronic format, matched to state standards.

**Speaker:** **Scott Flansburg** **Time: 1:30-2:45**  
**Room: Santan 215** **Audience: General**

**Title:** *The 2018 Arizona Counting Bee™*

**Summary:** Description; Scott Flansburg, The Human Calculator, will be giving a demonstration of this world record mental math skills and sharing some shortcuts and activities to you're your students prepare for the first ever 'Counting Bee'.

A 'counting bee' is a STEM competition in which competitors are asked to calculate a broad selection of skip counting patterns with a varying degree of difficulty.

#### **Session 4:**

**Speaker:** **Kimberly Rimbey** **Time: 3:00-3:50**  
**Room: Santan 331** **Audience: 4<sup>th</sup>-8<sup>th</sup> Grade**

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**Title:** *Make Math Meaningful: Valuable Visuals for Connecting Fractions and Decimals in Grades 4-8*

**Summary:** Making sense of decimal concepts and operations requires strong connections with fractions and place value. Join us as we explore fraction and decimal multiplication using concrete and visual models, connected to written work, and grounded in problem solving. Take-back-to-your-classroom-tomorrow strategies will be included!

**Speaker:** **Patty Low** **Time: 3:00-3:50**  
**Room: Santan 135** **Audience: PreK-8<sup>th</sup> Grade**

**Title:** *Enhancing Number Talks with Simulations*

**Summary:** Building a solid foundation of number sense and fact fluency using number talks helps students take ownership of their mathematical understanding. Number talks are also beneficial when used alongside inquiry-based learning tools, like simulations. Discover how online simulations can support and enhance number talks and help students understand mathematical concepts.

**Speaker:** **Kelly Cota** **Time: 3:00-3:50**  
**Room: Peralta 135** **Audience: 6<sup>th</sup> Grade-High School**

**Title:** *Building Fluency through Conceptual Understanding*

**Summary:** Participants explore the idea that procedural skill and fluency is built upon conceptual understanding through exploring the age of pennies. Participants will connect the pennies activity to statistics for multiple grades.

**Speaker:** **Mary Cavanagh** **Time: 3:00-3:50**  
**Room: Santan 339** **Audience: PreK-2<sup>nd</sup> Grade**

**Title:** *Build Stronger Mathematical Thinking Skills through Patterns & Functions*

**Summary:** Participants will use manipulative and pictures to create growing patterns. They will use number cards to indicate the position of each element in the pattern. They will use “Rosie” the Function Machine and play “What’s My Rule?” types of games to create growing patterns with number cards to indicate the position of each element in the pattern.

**Speaker:** **Jane Gaun** **Time: 3:00-3:50**  
**Room: Peralta 313** **Audience: Administrators & Teacher Leaders**

**Title:** *Find the Need: Set the Goal: Create the Professional Learning Plan*

**Summary:** Setting an appropriate professional goal is the first step in creating an effective professional learning plan. One size fits all professional learning is as ineffective as one size fits all classroom instruction. Participants will experience a powerful and structured process of sorting actions aligned with the Mathematics Teaching Practices to discover their own relative strengths and weakness. By identifying the areas in which their teaching could benefit from an explicit focus, teachers can take ownership of their professional learning and set intentional and appropriate goals.

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**Speaker:** **Janelle Chisholm** **Time: 3:00-3:50**  
**Room: Peralta 314** **Audience: PreK-2<sup>nd</sup> Grade**  
**Title:** *How do I use a Rekenrek and other math tools?*  
**Summary:** Join us as we explore using rekenreks, the human number line and other manipulatives to make sense of primary math. Your students will love these tools, and you will too!

**Speaker:** **Kim Thomas & Veronica Carlson** **Time: 3:00-3:50**  
**Room: Peralta 310** **Audience: High School**  
**Title:** *Limits and l'Hôpital - Learning Using Visualization*  
**Summary:** Calculating limits in calculus is more than following a set of rules and guidelines. Understanding limits, including the application of l'Hôpital's Rule, is made easier using visualization techniques using graphing technology. Assessment and practice for AP Calculus will also be addressed.

**Speaker:** **Melissa Hosten** **Time: 3:00-3:50**  
**Room: Peralta 210** **Audience: PreK-2<sup>nd</sup> Grade**  
**Title:** *Subitize Me!*  
**Summary:** Subitizing is the foundation for number sense. It is more than the ability to instantly recognize a quantity of objects without counting. Come learn activities that you can immediately bring into your classroom to help with subitizing.

**Speaker:** **Brian Beaudrie** **Time: 3:00-3:50**  
**Room: Peralta 207** **Audience: General**  
**Title:** *Knowing without Understanding*  
**Summary:** What does it mean to understand mathematics? How do you know that they know and we know, you know? We'll take a light-hearted look at several misunderstandings that span topics and grades in an attempt to dig deep into what understanding mathematics really means.

**Speaker:** **Ben Metcalf** **Time: 3:00-3:50**  
**Room: Peralta 309** **Audience: General**  
**Title:** *Evaluating and Sourcing Digital Tools to Support Instruction*  
**Summary:** Access to digital tools and technological improvements are changing what becomes possible in the classroom and at home for learners. You'll be invited to explore strategies to match your professional needs with the growing set of available resources in the digital classroom. Please bring a laptop or tablet and plan to engage with peers and session resources.

**Speaker:** **Po-Pe Enrique** **Time: 3:00-3:50**  
**Room: Santan 222** **Audience: High School**  
**Title:** *Create Two-Way Tables & Use Conditional Probability to Claim Discrimination*  
**Summary:** Have you ever wanted your students to create their own two-way tables? Using kaggle.com and Pivot Tables in Excel/Google Sheets, your students can \*easily\* create

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two-way tables from primary research sources! Combined with conditional probability, students can investigate if discrimination has occurred. For example, does gender affect getting an exceeding on a work evaluation? Students can sort data by gender and evaluation status into a two-way table to prove if  $P(\text{exceeding}) = P(\text{exceeding} | \text{female})$  and write a Claims-Evidence-Reasoning (CER) to analyze their findings (rubric included).