


# 2022 SD STEM Ed Conference

# February 3, 4, 5, 2022

## Friday, February 4

## Schedule At A Glance

Room	8:00	8:30-9:20	9:30-10:20	10:30-11:20	11:20	11:50-12:50	12:50	1:10-2:00	2:10-3:00	3:00	3:30-4:20	4:30-5:30	5:30	6:30 PM -
Lobby	Registration 7:00 AM - 4:20 PM				Registration 7:00 AM - 4:20 PM									
Exhibit Hall	Visit Exhibitors 8:00 AM - 5:00 PM				Visit Exhibitors 8:00 AM - 5:00 PM									
Prairie A	Opening Session	{SETUP}	{OPEN}	{Lunch SETUP}	LUNCH ----- Hosted by Presidents of SDSTA & SDCTM	Networking	Networking	Making Math Stick: Strategies to Support Understanding and Recall of Concepts <i>Costello</i>	Making Math Stick: Digging Deeper into Strategies to Support Understanding and Recall of Concepts <i>Costello</i>	Networking and Exhibitors	Problem Solving in a Mathematically Literate Environment: Going Beyond Surface Level <i>Costello</i>	SOCIAL	Awards Banquet and Keynote Speaker	
Prairie B		{SETUP}	Teaching to Understand the World We Live In <i>Matthews</i>					Investigating Rangeland Systems and Practices: Enhancing Sustainable Agriculture Curriculum in South Dakota <i>Ehlert, Bachler &amp; Wood</i>	School Enrichment Through 4-H <i>Wood, Martinell &amp; Koepke</i>		Think, Make, Create Mobile Lab <i>Wood</i>			- Matthews -
Prairie C		3D Learning for a World of 8 Billion <i>Venhuizen</i>	3D Learning for a World of 8 Billion <i>Venhuizen</i>					Hands-on Healthy Soil <i>Lewis</i>	Teacher Efficacy and Its Role in Student Identity <i>Bowers</i>		Building Math Identity <i>Jackson</i>		Thank You - Aaron Cole and ImagineTheFutureofFarming.com	Why Do We Teach Mathematics? How about Science? Can You List the Five Reasons for Each?
Dakota A		Refrigerator Math <i>Gilkerson</i>	Fun Math Routines for the Elementary Classroom <i>Smith</i>	Improving the Feedback Process <i>Smith</i>				Respecting Students as Young Mathematicians and Scientists <i>Matthews</i>	Improving the Feedback Process <i>Smith</i>		Teaching to Understand the World We Live In <i>Matthews</i>	SDCTM Business Meeting		
Dakota B		Shifting to Mastery - Competency Based Education Models <i>Kennedy</i>	Universal Design for Learning - Accessing Learning for ALL Students <i>Kennedy</i>	Creating Culturally Sustaining Curriculum <i>Oatman</i>				The South Dakota Assessment System- Free, Focused, Formative Assessments and Teaching Resources <i>Higdon</i>	What is the Buzz About Data Science? <i>Higdon</i>		{OPEN}			
Dakota C		The Essential Exponential – AI Bartlett's Message to the Future <i>Browning</i>	Geometry: To the Moon! <i>Kuhlman</i>	Geometry: To the Moon! <i>Kuhlman</i>				Sound and Light, Part 1 <i>Norris</i>	Sound and Light, Part 2 <i>Norris</i>		{OPEN}			
Dakota D		Using Multiple Representations to Make Connections in Algebra <i>Jackson &amp; Bain</i>	Using Multiple Representations to Make Connections in Algebra <i>Jackson &amp; Bain</i>	Patterns with Purpose: Using Multiple Representations to Make Connections in Linear Algebra <i>Bain &amp; Jackson</i>				What is Wi-Fi? <i>Benjamin</i>	Patterns with Purpose: Using Multiple Representations to Make Connections in Linear Algebra <i>Bain &amp; Jackson</i>		Teaching Evolution with Technology <i>Bowers</i>			
Dakota E		The Rig Quality  ating for aterials <i>Lande</i>	Super Fun Prototyping Spectacular: Design Thinking, Making, & Creative Problem Solving for STEM <i>Lande</i>	INVENT. CREATE. EXPLORE. <i>Lape</i>				STEM, Meet Design Thinking <i>Lape</i>	Build A Bot and Watch It Go <i>Lape</i>		Meet The Future Teachers <i>Van Peurse, Vestal &amp; Miller</i>	SDSTA Business Meeting		
Dakota F		Creating Engagement Using Phenomena <i>Ronish</i>	STEM Education and Afterschool Partnerships <i>Ronish</i>	Now . . . Take my Microscope – Please! <i>Browning</i>				PhyPhoX Phone Swing for Pendulum labs <i>Browning</i>	Putting Real World TE in STEM! <i>Ronish</i>		By Land or by Sea, Powered by the Wind <i>Ronish</i>			
Dakota G		A Close Look at the South Dakota State Standards for Mathematics Definition of Fraction <i>Jairam</i>	Creating Opportunities to Use the Standards for Mathematical Practice <i>Reiner</i>	CRISPR and Genome Editing: Where Do I Start? <i>Benson &amp; Otto</i>				Empowering Learners through Voice and Choice <i>Myers</i>	Stoichiometry and Equations <i>Daugaard</i>		SD - AAPT Business Meeting & Photo Contest <i>Stearns, Browning &amp; Daugaard</i>			
Dakota H		GIS in Your Classroom: Incorporate Mapping Activities with a Free Platform and Ready Made Lesson Plans <i>Erickson</i>	{Setup}	Cardboard Winter Olympics: Let the Games Begin! <i>Steckelberg</i>				Cardboard Winter Olympics: Let the Games Begin! <i>Steckelberg</i>	{Setup}		Fractions of the Future <i>Clayton</i>			
Symposium														
Salon 1		STEAM: Materials, Metal Clay, and More! {Limited to 20} <i>Donovan &amp; Mitchell</i>	STEAM: Materials, Metal Clay, and More! {Limited to 20} <i>Donovan &amp; Mitchell</i>	STEAM: Materials, Metal Clay, and More! {Limited to 20} <i>Donovan &amp; Mitchell</i>				{Setup - TearDown}	{Setup - TearDown}		{Setup - TearDown}			
Salon 2	Share the Classroom Treasurers { Free Supplies from other Classrooms/Labs } Help yourself as after 2:40PM on Saturday, these Treasures turn to trash!!!													
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