



edventures!™

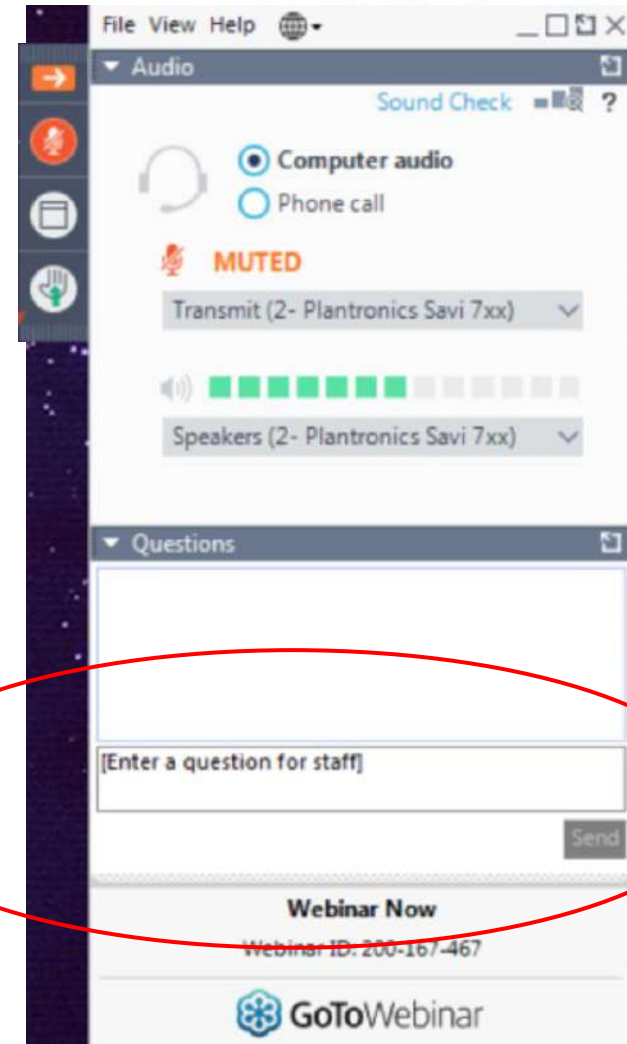


EXPERTS IN
HANDS-ON
STEM EDUCATION

2020 STEAM BUYING GUIDE

Housekeeping Notes

- Today's webinar is being recorded and will be shared within 3 days
- Everyone is in listen-only mode
- Use the questions toolbar at any time
- Questions for our panel will be asked during Q&A



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Webinar Sponsor: PCS Edventures

Started as Pat's Computer School in 1988

Grew to network of experiential *learning centers* in Idaho, Washington and California

PCS Edventures learning solutions are in more than 7000 sites in all 50 states and over 17 other countries

Philosophy of hands-on projects that fuel a passion for learning and a lifelong love of STEM



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Who We Serve

- K-12 classroom educators
- After-school and summer programs
- Libraries and makerspaces
- Clubs and youth groups such as FFA, Boys & Girls Club, 4H, etc.





Today's Moderator

Sonia Galaviz

In-District STEM Coordinator
Award-Winning 5th Grade Educator
PCS Edventures Curriculum Consultant

Recipient of:

- 2017 NEA Excellence in Education Award
- 2011 Teaching Tolerance in Culturally-Responsive Teaching Award

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Agenda

- Quick-Pick, All-Time Best-Sellers
- Panel Introduction
- The importance of STEAM in learning environments
- What to look for in quality STEAM programming
- Q&A
- Giveaway & survey



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All-Time Best-Sellers



DISCOVER SERIES

DRONES



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Guest Educator Panel



Kim Turner
4th and 5th Grade
Gifted Teacher
Liberty, MO



Nikki Servatius
Math and
Computer Science Teacher
iNampa, ID



Melanie Schrader
Gifted and Talented
Facilitator/Leadership Teacher
Hailey, ID

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Kim Turner

- 2019 Innovator of the Year; Liberty, Missouri
- Burns McDonnell Battle of the Brains finalist 2017, 2019, securing over \$20,000 in STEM funding
- 4th and 5th grade gifted teacher 2004 - present; Liberty, Missouri
- K - 5 Enrichment teacher, 1998 - 2004; Liberty, Missouri
- 4th grade teacher; 1993-1998; Liberty, Missouri
- 4th grade gifted teacher 1992-1993; Washington State
- 5th grade teacher, 1991 - 1992; Solana Beach, California
- Education: Baker University, Masters in Education ('00); Gifted Certification, ('99); University of San Diego, Elementary and Middle School Education degree ('91); UCLA, BA History ('89)



Kim Turner

4th and 5th Grade
Gifted Teacher

**Alexander Doniphan
Elementary**

Liberty, MO

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Nikki Servatius

- Math Teacher at Pathways in Education, Nampa Idaho. 2017 to present
- Masters in STEM from Boise State University
- Graduate Certificate, Computer Science teaching endorsement
- Director of PCS EdventuresLAB. 2015-2017
- Environmental Educator in Colebrook, Connecticut. 2012-2013
- Peace Corps Volunteer - Education 2013-2015 in rural all-girls high school in Tanzania - teaching biology, math and chemistry - member of Shika na Mikono conducting teacher trainings and hosting math/science conferences



Nikki Servatius

Math & Computer
Science Educator

**Pathways in Education
Charter School**

Nampa, ID

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Melanie Schrader

- 2012 - present WRMS GATE Teacher/Facilitator
 - 2019 - *Drone Designers* collaborating educator, PCS Edventures
 - 2018 - present: WRMS Technology Department Head
 - Idaho Master Educator Premium Recipient
- 2005 - 2007 - West Middle School, 7th Grade Science Teacher, Nampa, ID
- 2002 - 2005 - English Teacher, Yoshino Elementary Schools, Japan
- 2000 - 2002, High School Biology & Chemistry teacher, Eagle/Meridian High Schools, West Ada School District
- B.S. - Biology Secondary Education, Boise State University (2000); Chemistry 6-12 Endorsement; M.S. - Special Education: Gifted, Talented, and Creative (2015) Arkansas State -- Jonesboro



Melanie Schrader

Gifted and Talented
Facilitator/
Leadership Educator

**Wood River Middle
School**

Hailey, ID

Why STEM / STE(A)M

What are the benefits?

Benefits of STEM / STE(A)M

STEM Education offers:

- High student engagement
- Critical-thinking/problem-solving
- Allows kids to explore an area of interest or talent
- Hands-on learning
- Connection to real world



Kim Turner

4th and 5th Grade
Gifted Teacher

**Alexander Doniphan
Elementary**

Liberty, MO

Benefits of STEM / STE(A)M

- Teaches skills students need to be successful at ANY job they choose to pursue
- Problem-solving/resourcefulness
- Resilience
- Learn from Failure
- Open-ended/differentiation
- Engagement/retention of material
- A “Why” behind the material



Nikki Servatius

Math & Computer
Science Teacher

**Pathways in Education
Charter School**

Nampa, ID

Benefits of STEM / STE(A)M

- Interdisciplinary contexts
- High student engagement
- Hands-on learning
- Project management & soft skills development
- 21st century skills, critical-thinking, creativity, and collaborative skill development
- Exposure to real-world careers & disciplines
- Ability to develop student strengths, interests, and talent areas
- Open-ended and challenging



Melanie Schrader

Gifted and Talented
Facilitator

**Wood River Middle
School**

Hailey, ID

What to look for in quality STE(A)M programming

What criteria do you look for?

Qualities of good STEM / STE(A)M Programming

Not listed in rank order...

- Scaffolding of lessons
- Connection to real world
- Bloom's Taxonomy of Thinking
- Sustainability (quality of product)
- How many students can use program at one time
- Independent versus teacher-directed



Kim Turner

4th and 5th Grade
Gifted Teacher

**Alexander Doniphan
Elementary**

Liberty, MO

Qualities of good STEM / STE(A)M Programming

- Alignment to standards (Common Core)
- Comprehensive in teacher and student materials and lessons
- Differentiation- challenging at different levels
- Robust physical materials that can withstand use again and again
- Number of students served with materials
- Connection to real-world application



Nikki Servatius

Math & Computer
Science Teacher

Pathways in Education
Charter School

Nampa, ID

Qualities of good STEM / STE(A)M Programming

- Engaging, Problem-Based Curriculum
- Program comprehensiveness
 - High levels of program support
 - Complete curricular materials package
 - Ready to go, organized and simple to understand lesson plans
- Real-world applicability
- Personal freedom to adapt/adjust/tailor curriculum to personal & student needs
- Accessibility for multiple skill levels & talent areas



Melanie Schrader

Gifted and Talented
Facilitator

**Wood River Middle
School**

Haley, ID

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Teacher Guest Panel



Sonia Galaviz



Kim Turner



Nikki Servatius



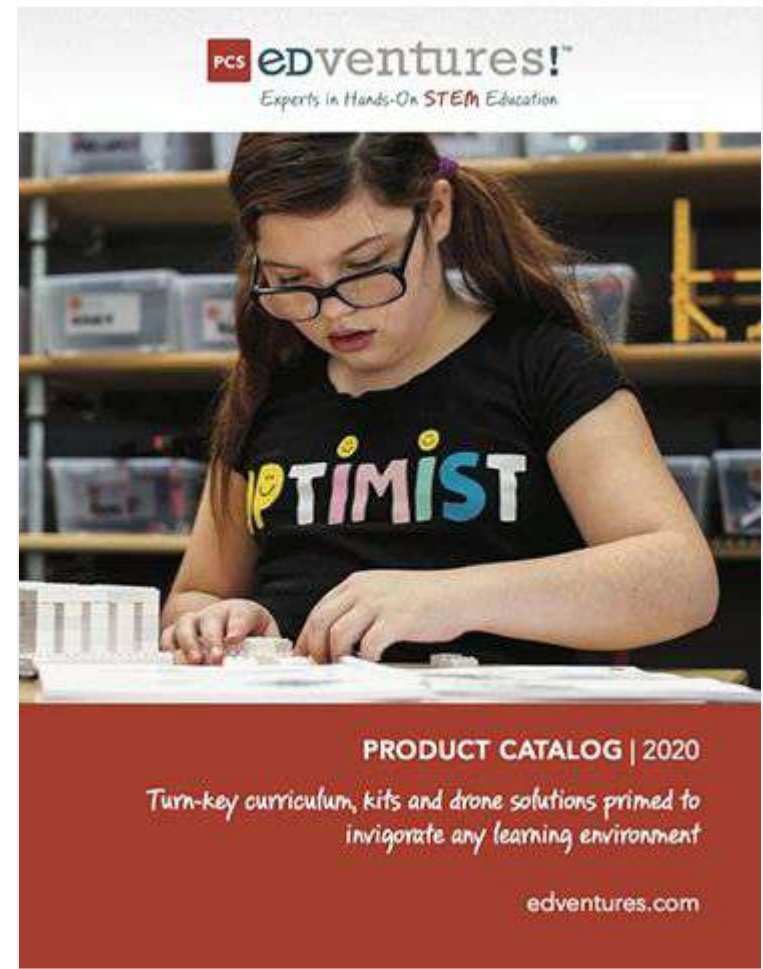
Melanie Schrader

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2020 Catalog

- More than 70 unique solutions covering all aspects of STEAM
- Detailed product descriptions
- Organized to make finding products for your learning environment fast and easy
- edventures.com/catalogs



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QUESTIONS?

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Webinar Survey

- Tell us how we're doing
- What topics you'd like us to cover in the future

Webinar Video Link

- Everybody who registered will receive an email notification with a link to the webinar video

Giveaways

- STE(A)M Readiness Checklist
- STE(A)M Programming Evaluation Checklist

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Contact a
PCS STEMbassador

For customized
solutions tailored for
your learning
environment

sales@edventures.com