

MAKERSPACES: Creating and Enhancing Engaging Makerspaces in Your Classroom and School (Grades K-6)



A Unique One-Day Seminar Presented by

Andy Mann

Award-Winning Instructional Technology Teacher
and Certified Google Education Trainer

**Specifically Designed for Classroom Teachers, School Librarians,
Media Specialists, Library Aides, Technology Teachers,
Resource Teachers, and Administrators**

Innovative makerspace activities designed to support your curriculum
and boost students' academic skills in grades K-6

Cost-efficient ideas to make the best use of your time and space

Practical strategies to help you find resources for developing and enhancing
a successful makerspace for your classroom or school

Hands-on exploration of 20 of the most popular maker resources and projects

Arizona

Phoenix – November 5

California

Anaheim – November 6

Pasadena – November 7
(Arcadia)

Sacramento – November 8
(Elk Grove)

Minnesota

Minneapolis – November 4
(Plymouth)

CEUs and Graduate Credits Available
See page 6 for details

*'I cannot wait to get
back and share this with
the other teachers.'*

– TEMETHIA JOYNER,
INSTRUCTIONAL COACH

Ten Key Benefits of Attending

*'Wonderful seminar!
Great hands-on
opportunities. I'm
excited to take
these ideas back
to my classroom.'*

– DANIELLE ANDRIST,
TEACHER



Who Should Attend

Classroom Teachers,
School Librarians, Media
Specialists, Library Aides,
Technology Teachers,
Resource Teachers,
and Administrators

1. Create Interactive, Hands-On Makerspaces Ideal for K-6 Students

Engage students and promote creativity, problem-solving skills and higher-order thinking skills with makerspaces that are specifically designed for your own students ... Whether you are new to makerspaces or already have them set up, you'll find a wealth of ideas

2. Develop Makerspaces that Directly Support Essential Academic Skills

Makerspaces go beyond fun ... Discover practical ways to create an engaging environment where students can work together to express their creativity, explore ideas and practice key academic skills

3. Making Time for Makerspaces

Discover strategies for creating time for makerspace exploration during your school day's busy schedule ... Practical strategies for making makerspaces function efficiently within your busy day

4. Create a Maker Ethos

Understand how to champion important maker skills including creativity and problem-solving, skills important to employers

5. Boost STEAM Skills with Makerspaces

Learn how makerspaces can support STEAM ... Specific examples of makerspaces that help students expand their science, technology, engineering, art, and mathematics skills

6. Design Thinking to Create Solutions

Learn how students incorporate design thinking to understand a problem, brainstorm potential solutions, create prototypes, test, and revise

7. Discover Makerspace Tools and Projects

Have time to explore your choice of 20 different maker resources and projects – from codable robots and drones to green screens and electrical circuit kits – there is something for every experience and grade level

8. Stretch Your Budget and Make the Best Use of Existing Resources

Learn how to create a wealth of makerspaces from readily available materials found within your school, not just with 3-D printers ... No cost and low-cost ways to better utilize limited space, materials, resources, and school or community funds

9. Enhance your Curriculum

Makerspaces not only inspire creativity but will support your current curriculum by supporting science and engineering skills ... Here's how

10. Receive an Extensive Makerspace Handbook

Leave with an extensive resource handbook filled with the newest, most current ideas, strategies, and materials for creating and enhancing makerspaces

Outstanding Strategies You Can Use Immediately

What You Will Learn ...

- **The latest ideas** for creating engaging makerspaces in schools
- **Genius Hour** allowing students choices to explore their passion and creatively share their new learning
- **How to make the most** of your makerspace budget
- **Ways to enhance** already-existing makerspaces
- **Proven strategies** for motivating your stakeholders to support makerspaces
- **Innovative strategies** for boosting the STEAM skills of your students
- **More than 20 makerspace resources** to test to decide if they should be added to your makerspace
- **The best free and low-cost** materials for your makerspaces and where to find them
- **Helpful tips** for planning successful makerspace projects
- **Time-management and organizational strategies** to maximize makerspace use
- **Winning tips and tricks** from successful makerspace creators
- **Grading maker projects** using a three-part rubric that assesses process, understanding and product
- **Timesaving tips and cost-effective ideas** for all budgets
- **Innovative ways** to challenge students to higher-level thinking skills and boost creativity using a variety of makerspace activities



'Andy Mann is engaging, up-to-date on all things makerspace and an excellent resource. Worth the day away from school.'

– JEAN-MARIE READER, GRADE 6/TECHNOLOGY TEACHER

Practical Ideas and Strategies

This seminar has been designed to help classroom teachers, librarians, technology teachers, and administrators who want to create or enhance makerspaces for their school or classroom. You'll learn how to make best use of your makerspace to provide hands-on, creative opportunities for your students to design, experiment, build and invent as they deeply engage in science, engineering and tinkering.

In this outstanding seminar, experienced teacher and makerspace coach, **Andy Mann** will provide hands-on exploration time with more than 20 of the most popular maker resources and projects. You'll learn proven ways to obtain free and low-cost materials for your makerspace program as well as innovative makerspace activities designed to support your curriculum and boost your students' academic skills. You'll leave this seminar with a wealth of practical ideas to make your makerspaces a vital part of your school.



A Message From Seminar Leader, Andy Mann



Uniquely Qualified Instructor

ANDY MANN is an experienced classroom teacher, technology pioneer and energetic presenter. He is sought after for his depth of knowledge and ability to meet the needs of participants with diverse levels of knowledge and comfort with technology. His passion is to help educators and students learn to use technology to improve teaching and learning. Andy brings a wealth of experience to each seminar, working with other educators to select and use technology resources to improve teaching and learning.

Andy is the author of *Creating and Enhancing Engaging Makerspaces in Your Classroom and School (Grades K-6)*, the handbook each participant will receive at the seminar. He is an expert in Google and Chromebooks and is a certified Google Education Trainer.

Recognized for his leadership in educational technology, Andy is a two-time recipient of the International Society of Technology in Education (ISTE) "Making It Happen" Award. Participants leave Andy's seminars with a wealth of new tools, apps, strategies, and integration ideas they can use immediately when they return to their classroom.

Dear Colleague:

With all the curriculum and testing demands, does it seem like time for creativity and exploration gets lost? Join me for the day and learn how a maker mindset can bring active learning, creativity and exploration back into your classroom. You don't need a 3-D printer and programmable robots to create. Discover how a makerspace can be developed on a shoestring budget with cardboard, milk cartons, straws, and homemade playdough. Explore inexpensive electrical circuit creation with gardening supplies and free online block-coding programs. See examples of makerspaces which have been integrated into a classroom, housed in a library or an after-school club. Leave with a clear understanding of a successful makerspace teacher – a teacher who can support student creativity, pose the critical questions, and create alongside their students.

I have designed the seminar with time for hands-on practice using replicable projects. I bring a range of the most popular maker resources for you to try. Following the seminar, the learning continues as you use the makerspace resource handbook I created, packed with lessons, tips, and integration strategies. You'll also have access to my website where you'll find links to tutorials and the most useful online resources.

Whether you are new to makerspaces, or an experienced makerspaces veteran, you will leave with new ideas and practical, classroom-tested lessons that you may share and customize for immediately use in your classroom. I invite you to come learn with me.

Sincerely,

Andy Mann

P.S. As an experienced teacher, I value the extra effort it takes for you to be out of the classroom, even for a day. I promise you that our day together will be well worth your "sub plans." **You will leave with a treasure chest of ideas, ready to use with your students.** And be prepared for fun as we learn together.

"Whether you are new to makerspaces, or an experienced makerspaces veteran, you will leave with new ideas and practical, classroom-tested lessons that you may share and customize for immediately use in your classroom."

What Your Colleagues Say About Andy Mann

*"Andy's seminar is a **great balance of talking, sharing and hands-on activities**. Andy is very knowledgeable and excited about the topic of makerspaces."* Krystal Zagloul, Art Teacher

*"Andy is **well organized and full of great information**."* Adam Alvarez, French/Spanish Teacher

*"Andy is **an enthusiastic teacher**. Loved the slides-like that we could take notes right on the slide. I am eager to enhance my makerspace with his ideas."* Ann Logan, 2nd Grade Art Teacher

*"I appreciate Andy for balancing basic with advanced tips and for being **super prepared**. **Content is excellent**."* Charlene Brown, Teacher/Tech Resource

*"Our school is looking to create a makerspace in our elementary end. Andy's seminar gave **many ideas that can be taken back to school**."* Geri Haugen, 3rd Grade Teacher

*"**Awesome, Andy!** So very energetic and spirited about everything that he does and so very patient with the entire audience!"* Peter J. Vandenberg III, High School Spanish Teacher

*"Andy Mann is a fabulous instructor with **valuable knowledge and great tools** to understand what is available. I would highly recommend this seminar to other STEM/makerspace teachers/coordinators."* Andrew Velishek, STEM Teacher



Special Benefits of Attending



Online Learning

BER offers educators a wide range of online courses that are affordable, fun, fast, and convenient. BER is now offering On Demand Video-Based courses. You may earn optional graduate-level credits for most courses. See the catalog of available courses at www.ber.org/online

On-Site Training

Most BER seminars can be brought to your school or district. See the options at www.ber.org/onsite or call 877-857-8964 to speak to one of our On-Site Training Consultants.

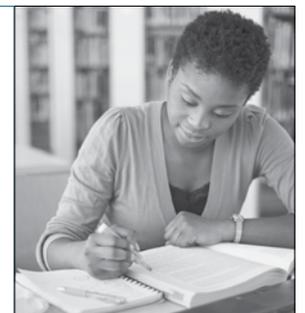
Can't Attend?

Other Professional Development Option:

Related Online Course

A related On Demand Video-Based Online Learning course, *MAKERSPACES: Creating Motivating, Engaging Work Spaces for Your Library*, for Grades K-12, is available for immediate registration.

To enroll, visit www.ber.org/online at www.ber.org/online



Extensive Makerspaces Resource Handbook

Each participant will receive an extensive makerspaces resource handbook specifically designed for this seminar. The handbook includes:

- Specific ways to create engaging makerspaces to enhance creativity and strengthen STEAM skills
- Numerous funding resources and ideas for inexpensive makerspaces
- Useful strategies and techniques for planning and establishing makerspaces in your school or classroom
- Ideas that generate support and resources for makerspaces

Make Best Use of Your Time

Our goal is to make the best use of your time during the seminar while providing you with the greatest variety of practical applications for your classroom. To accomplish this goal, we use a large screen multimedia projection system to demonstrate specific applications, digital tools and online resources throughout the day rather than individual devices. A copy of the Google Slides presentation will be shared at the start of the seminar - making it easier to add your own notes and follow links. Though not a requirement, attendees are encouraged to bring a fully charged Chromebook or laptop for optional hands-on projects, accessing the seminar links and note taking. Past participants find a Chromebook/laptop works better than an iPad. Your resource handbook, a copy of the slide presentation with bonus material and a specially created website will provide you with project ideas and direct links to the online resources to support additional hands-on exploration following the seminar.

Meet Inservice Requirements / Earn State CEUs

Participants will receive a certificate of participation that may be used to verify continuing education hours.

CEUs Available:

Arizona

AZ Clock Hours Available

Minnesota

MN Clock Hours Available

Earn One to Four Graduate Semester Credits



CHAPMAN UNIVERSITY SYSTEM

Up to four graduate level professional development credits are available with an additional fee and completion of follow-up practicum activities. Details for direct enrollment with Brandman University, part of the Chapman University system, will be available at this program.

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Registration (ZMM0F1)

- 1. **Anaheim, CA** – November 6, 2019
- 2. **Minneapolis** (Plymouth), **MN** – November 4, 2019
- 3. **Pasadena** (Arcadia), **CA** – November 7, 2019
- 4. **Phoenix, AZ** – November 5, 2019
- 5. **Sacramento** (Elk Grove), **CA** – November 8, 2019

FIRST NAME	M.I.	LAST NAME
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POSITION, SUBJECT TAUGHT	GRADE LEVEL	
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SEMINAR LOCATION NUMBER: _____ (Please see list above)		

List additional registrants on a copy of this form

SCHOOL NAME	
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SCHOOL MAILING ADDRESS	
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CITY & STATE	ZIP CODE
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SCHOOL PHONE NUMBER	HOME PHONE NUMBER
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**Registration confirmations are sent via e-mail.
If you would like a confirmation, please provide your e-mail address.**

E-MAIL ADDRESS	
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HOME MAILING ADDRESS	
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CITY & STATE	ZIP CODE
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IMPORTANT: PRIORITY ID CODE: EZMM0F1

METHOD OF PAYMENT – Team Discount Available

The registration fee is \$279 per person, for teams of three or more registering at the same time, the fee is \$259 per person. **Payment is due prior to the program.** No cash please.

- A check (payable to **Bureau of Education & Research**) is attached
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FOUR EASY WAYS TO REGISTER:

 REGISTER ONLINE at: www.ber.org

 FAX this form to: 1-425-453-1134

 PHONE toll-free: 1-800-735-3503 (Weekdays 6 am - 5 pm Pacific Time)

 MAIL this form to: **Bureau of Education & Research**
915 118th Avenue SE • PO Box 96068
Bellevue, WA 98009-9668

Program Hours

All seminars are scheduled 8:30 a.m. - 3:15 p.m.
Check-in 8:00 a.m. - 8:30 a.m.

Fee

The registration fee is \$279 per person, \$259 per person for groups of three or more registering at the same time. Call us at 1-800-735-3503 for groups of ten or more. **Payment is due prior to the program.** No cash please. Fee includes seminar registration, morning coffee and tea, a personalized certificate of participation, and an extensive resource handbook.

Meeting Sites and Hotel Accommodations

Seminars will be held at the following sites:

- Anaheim: Red Lion, (714) 750-2801
- Minneapolis: Crowne Plaza – Plymouth, (763) 559-6600
- Pasadena: Embassy Suites – Arcadia, (626) 445-8525
- Phoenix: Four Points by Sheraton North, (602) 943-2341
- Sacramento: Holiday Inn Express & Suites Central – Elk Grove, (916) 478-9000

If needed, please make your own hotel reservations by calling the appropriate hotel listed above.

Cancellation/Substitutions:

100% of your paid registration fee will be refunded if you can't attend and notify us at least 10 days before the conference. Late cancellations will be refunded less a \$15 service fee. Substitutions may be made at any time without charge.

Program Guarantee

We stand behind the high quality of our programs by providing the following unconditional guarantee: If you are not satisfied with this program, we'll give you a 100% refund of your registration fee.

Further Questions

Call the Bureau of Education & Research (800) 735-3503 or visit us online at www.ber.org. The Bureau is North America's leading presenter of seminar training for professional educators. Programs are based on sound research, are highly practical in content and consistently receive excellent evaluations.



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Powerful, Engaging MAKERSPACES for Your Classroom or School (Grades K-6)

Best Practices to Strengthen Your Makerspaces

A Unique One-Day Seminar

Coming to a Location Near You

ZMM0F1



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A Unique One-Day Seminar Coming to a Location Near You

Presented by

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Award-Winning Instructional Technology Teacher and
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