



Bureau of Education & Research

MAKERSPACES: Powerfully Enhance Student Learning in Your Classroom and School (Grades 6-12)



A Unique One-Day Seminar Presented by

Heather Lister

Outstanding Educator and National Makerspaces Expert

Specifically Designed for Grades 6-12 Educators: Classroom Teachers, Technology Teachers, School Librarians, Media Specialists, Library Aides, Instructional Coaches, Resource Teachers, and Administrators

The most up-to-date approaches and best practices for enhancing or establishing makerspaces in your classroom, school or library

Discover the best of what really works – see examples, models and structures of quality makerspaces

Explore three types of makerspaces that promote sophisticated student inquiry and innovative learning

Dozens of cost-efficient ways to meaningfully infuse engaging makerspace opportunities into your existing curriculum, classroom, school, and library

Maine

Portland – November 26

Michigan

Detroit (Livonia) – November 30

New Jersey

Newark (West Orange) – November 28

Ohio

Columbus – November 29

Rhode Island

Providence (Warwick) – November 27

CEUs and Graduate Credits Available
See page 6 for details

'Awesome! Many usable ideas. This will help us to take what we are already doing to the next level. Thank you.'

– DARLA TIESZEN, TEACHER

Ten Key Benefits of Attending

'This was an amazing workshop with a tremendous amount of resources and helpful things to consider. I enjoyed learning about the three types of maker-learning models.'

– WENDY TOWERS,
MEDIA SPECIALIST



Who Should Attend

Grades 6-12 Educators:
Classroom Teachers,
Technology Teachers,
School Librarians, Media
Specialists, Library Aides,
Instructional Coaches,
Resource Teachers, and
Administrators

1. Discover “What Works” – The Best, Most Current Makerspace Practices

Learn “what works” from those who have successfully established makerspaces ... The most up-to-date approaches and best practices for establishing or enhancing makerspaces in your grades 6-12 classroom, school or library

2. Explore Examples of the Three Types of Makerspaces

Discover key features and components of the three types of makerspaces ... Promote sophisticated student inquiry and innovative learning as you design or enhance your own makerspace

3. Materials and Supplies and Resources, Oh My!

Discover the products and supplies that will support your student creations and tips for managing them ... Explore dozens of resources, sample projects and templates

4. Engage Stakeholders and Define Your Makerspace Vision

Learn proven strategies for garnering support and engagement among key stakeholders ... Develop a plan that addresses the specific needs of your students, school and community

5. Boost STEAM Skills Across the Content Areas

Learn how you can use makerspaces to help students increase their science, technology, engineering, arts, and math skills in cross-curricular ways

6. Build “Making” Momentum in Existing Makerspaces

Perhaps you have a makerspace, but it isn't quite getting used the way you'd hoped? ... Learn proven tips, tricks and strategies designed to enhance and revitalize existing makerspaces

7. Making Time for Makerspaces

Discover ways to create time for maker education amidst busy classroom and school schedules ... Practical strategies to maximize the efficiency and impact of makerspaces

8. Evaluation in the Makerspace

Learn how to provide meaningful feedback to students and explore frameworks used to assess student creations ... Discover ways to powerfully enhance and strengthen the design thinking of your students through the feedback you provide

9. Design on a Dime

Laser engravers and 3D printers are wonderful but they are far from necessary to have a powerful makerspace ... Discover many low/no cost, low-tech, upcycled materials you can use to effectively support your makerspaces

10. Effectively Manage Logistics, and Receive an Extensive Makerspaces Resource Handbook

Maximize the impact of your makerspaces while minimizing the impact on you – explore outstanding logistical tips and practices including safety, storage and organization ideas ... Leave with a makerspaces resource handbook packed with the latest, best ideas, strategies and materials for creating and enhancing successful makerspaces

Outstanding Strategies You Can Use Immediately

What You Will Learn ...

- **Discover the best of “what works”** – establish or enhance makerspaces in your classroom, school or library
- How to **plan, create and launch** successful makerspaces
- How to choose **budget-friendly materials, activities and supplies** that will best support your makerspace
- Ways to **integrate the design thinking process and making** into your existing curriculum, instruction and lessons
- Methods to **gain support from key stakeholders**
- **Proven step-by-step ways** to structure your makerspace most effectively
- Effective methods to **revitalize and enhance existing makerspaces**
- Powerful maker strategies that **maximize students’ higher-order thinking skills, creativity and collaboration**
- Strategies to **develop inclusive makerspaces** that support the unique needs of all students
- **Outstanding organizational tips and tricks** from experienced maker educators
- Innovative tools and technology to **enhance project based learning and STEM** in your makerspaces



‘This seminar was great. I got a whole new understanding about how to implement makerspaces. This was incredibly useful. Thank you so much!’

– PRICILLA CHINCHILLA, TECHNOLOGY TEACHER

Practical Ideas and Strategies

Maker education enables students to develop the critical thinking and problem-solving skills required of our 21st century workforce. Join outstanding educator and national makerspaces expert, **HEATHER LISTER**, as she shares the best of “what works” and how you can establish or enhance highly effective makerspaces in your own classroom, school or library. This **NEW** seminar is designed specifically for grades 6-12 educators who want to greatly enhance their students’ engagement, innovation, conceptual understanding, and creativity through makerspaces and making.

What are makerspaces?

Makerspaces are open labs where students with common interests gather to share resources, knowledge and build new devices or projects.

Generally, makerspaces are designed to meet the following needs:

- Provide access to a wide variety of tools and technology
- Facilitate group interaction, knowledge and resource sharing
- Supply access to physical space for individual project development
- Provide an open environment for expression of creativity and innovation
- Access to equipment for prototyping project ideas

Whether you’re just beginning your exploration into makerspaces, or are knee deep in the maker movement, this seminar will greatly help you establish or enhance your classroom, library or school makerspace.



A Message From Seminar Leader, Heather Lister



Uniquely Qualified Instructor

HEATHER LISTER is a national presenter and blogger on the topics of makerspaces and space transformation. With her experience as a school librarian, mathematics educator, and instructional technology specialist, Heather brings a unique and practical perspective to the world of maker education. Heather was named Maker Mentor for Year in the Making and is an Advisor for the Transform Your School Library (TYSL) initiative. She serves as Chair of Professional Development for the International Society of Technology in Education (ISTE) Librarians Network and is a Raspberry Pi Certified Educator. She is also the author of *Makerspaces: Powerfully Enhance Student Learning in Your Classroom and School (Grades 6-12)*, the extensive resource handbook that each participant will receive at the seminar. **Join Heather for an engaging, fun and practical day of learning filled with outstanding ideas to help you create or enhance successful makerspaces in your classroom, school or library.**

Dear Colleague:

As John Dewey once said, "If we teach today's students as we taught yesterday's, we rob them of tomorrow."

Traditional schooling was created in the image of industrialism. Yet, as we continue to move into the 21st century, there is less demand on rote memorization of facts and increased demand on collaboration, critical thinking and complex problem solving. All of these skills require high levels of flexibility and creativity. So how do we provide opportunities for students in grades 6-12 to develop these vital skills, while still addressing the curriculum and standards we are required to teach? Fortunately, the maker movement aims to integrate opportunities for imagination, creativity and an inventor's mindset.

In our day together, we'll explore innovative ways to integrate making in your school and classroom. While we will examine many outstanding makerspaces, please understand that no two makerspaces are alike. Still, there are three main types of makerspaces we will examine. You will have the opportunity to identify which type best suits your students, curricular needs and the space you have available.

For those with existing makerspaces or for once you're up and running, we'll explore innovative and engaging ways to take your curriculum and makerspaces to the next level. We will examine methods to evaluate your makerspace and ways to assess and provide feedback to students in ways that enhance their creativity, innovation and design thinking.

Throughout the day I'll share timesaving and budget-friendly tips to help you make the most of the resources you have, and I will share proven ways to garner support from key stakeholders.

No matter where you are in your makerspaces journey, this seminar will provide you with the motivation, strategies and resources you need to create or enhance successful makerspaces.

Sincerely,

Heather Lister

P.S. This seminar will be jam packed with ready-to-implement, budget-friendly activities and ideas to help you establish or enhance engaging, successful makerspaces.

"No matter where you are in your makerspaces journey, this seminar will provide you with the motivation, strategies and resources you need to create or enhance successful makerspaces."

What Your Colleagues Say About Heather Lister

*"Heather knows all the **ins and outs**" of creating a Makerspace. Her workshop helped us think about all the things we will need to do to get a space up and running."*

Mike Emery, Teacher

*"**Informative and inspirational.** So many new ideas introduced."* Mary Ellen Peloquin, Teacher

*"**Can't wait to use the numerous resources** Heather shares in this seminar!"*

Polly Kluvers, 7th Grade Science/STEAM Teacher

*"Heather presented **wonderful, helpful and useful** information that I plan to use. Great presentation!"*

Jennifer Nign, Science Teacher



*"**Heather was awesome!** She was very relatable to us and was **real**" in her presentation. I can't wait to work on expanding the use of our Makerspace with all these fresh ideas."*

Steve Verduh, Teacher

*"Wonderful presentation of **tons of resources!** Thank you!"*

Katherine Rabaca, Teacher

*"Heather is a great presenter and has a **wealth of knowledge** on this topic. Many valuable resources to assist in planning both vision and practical product that will uniquely define your space tailored to your school."*

Rosemary Rich, Library Media Specialist

*"**Great information** that I can immediately apply to my school."*

Holly Strobl, Teacher

*"Heather, thank you for all of the **terrific resources and ideas.** I now know so much more about makerspaces."*

Rachel Kelly, Math/Computer Science Teacher

Special Benefits of Attending



"I loved all the resources and websites. I can't wait to use them in my classroom."

– HEATHER GREEN,
SPED TEACHER

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.

Extensive Makerspaces Resource Handbook

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

- Frameworks outlining the three types of highly effective makerspaces
- Practical techniques, strategies and templates to plan and establish makerspaces in your classroom, library or school
- Numerous low-cost, timesaving makerspace ideas and activities
- Ready-to-duplicate makerspace assessment rubrics
- Curated directory of maker education communities and learning networks
- Samples of design thinking processes to use with students

Meet and Share

This seminar provides a wonderful opportunity for participants to meet and share ideas with other educators interested in establishing successful makerspaces.

Consultation Available

Heather Lister will be available at the seminar for consultation regarding your questions and the unique needs of your own program.

Meet Inservice Requirements / Earn State CEUs

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

CEUs Available:

Maine

5 Contact Hours Available with Prior Approval from your Local Certification Support System

Michigan

MI SCECH Available (5 Hours)

New Jersey

NJ Professional Development Hours Available with Prior District Approval

Ohio

OH CEUs Available with District Approval

Rhode Island

RI Five (5) Contact Hours Available; CT Five (5) Contact Hours Available with Prior District Approval, For MA, Contact Hours Verification 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.

Can't Attend?

Other Professional Development Options:



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/onlinelearning



MAKERSPACES: Powerfully Enhance Student Learning in Your Classroom and School (Grades 6-12)

Registration (ZML9F1)

- 1. **Columbus, OH** – November 29, 2018
- 2. **Detroit (Livonia), MI** – November 30, 2018
- 3. **Newark (West Orange), NJ** – November 28, 2018
- 4. **Portland, ME** – November 26, 2018
- 5. **Providence (Warwick), RI** – November 27, 2018

FIRST NAME _____ M.I. _____ LAST NAME _____

POSITION, SUBJECT TAUGHT _____ GRADE LEVEL _____

SEMINAR LOCATION NUMBER: _____ (Please see list above)

List additional registrants on a copy of this form

SCHOOL NAME _____

SCHOOL MAILING ADDRESS _____

CITY & STATE _____ ZIP CODE _____

SCHOOL PHONE NUMBER _____ HOME PHONE NUMBER _____

() ()

**Registration confirmations are sent via e-mail.
If you would like a confirmation, please provide your e-mail address.**

E-MAIL ADDRESS _____

HOME MAILING ADDRESS _____

CITY & STATE _____ ZIP CODE _____

IMPORTANT: PRIORITY ID CODE: EZML9F1

METHOD OF PAYMENT – Team Discount Available

The registration fee is \$259 per person, for teams of three or more registering at the same time, the fee is \$239 per person. **Payment is due prior to the program.** No cash please.

- A check (payable to **Bureau of Education & Research**) is attached
 - A purchase order is attached, P.O. # _____
(Be sure to include priority ID code on the P.O.)
 - Charge my: MasterCard VISA Discover
- Account # _____ Exp. Date: _____ MO/YR
- Billing Zip Code: _____ 3 Digit CVV Code: _____
(Found on back of card)

Please print name as it appears on card Signature (required for credit card purchases)

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 - 6 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 \$259 per person, \$239 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:

- Columbus: Crowne Plaza North, (614) 885-1885
- Detroit: Embassy Suites – Livonia, (734) 462-6000
- Newark: The Wilshire Grand Hotel – West Orange, (973) 731-7007
- Portland: Fireside Inn & Suites, (207) 774-5601
- Providence: Hilton Garden Inn – Airport, (401) 734-9600

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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MAKERSPACES: Powerfully Enhance Student Learning in Your Classroom and School (Grades 6-12)



Using MAKERSPACES to Enhance Student Learning (Grades 6-12)

**Best Practices to Establish or Enhance Makerspaces
in your Classroom, School or Library**

A Unique One-Day Seminar

Coming to a Location Near You

ZML9F1



Bureau of Education & Research

MAKERSPACES: Powerfully Enhance Student Learning in Your Classroom and School (Grades 6-12)



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

Presented by

Heather Lister

Outstanding Educator and National Makerspace Expert

The most up-to-date approaches and best practices for enhancing or establishing makerspaces in your classroom, school or library

Discover the best of what really works – see examples, models and structures of quality makerspaces

Explore three types of makerspaces that promote sophisticated student inquiry and innovative learning

Dozens of cost-efficient ways to meaningfully infuse engaging makerspace opportunities into your existing curriculum, classroom, school, and library