STEAM in the Public Library: Programs & Services for Children
Amy Koester St. Charles City-County Library District
Infopeople Supression Control of Manager Wednesday, May 7, 2014

Hello!

- Amy Koester
- Children's Librarian with St. Charles City-County Library District, Missouri
- The Show Me Librarian
- Youth programs, services, and outreach



In today's webinar...

- What is STEAM, and why does it belong in my public library's youth services?
- Programs for preschoolers
- Programs for school-age children
- STEAM services
- What you need to do STEAM, and where to find it

What is STEAM?	
STEAM Science technology	
engineering arts math	

Why STEAM instead of STEM?

- Arts in STEAM is NOT crafts
- Arts in STEAM means creativity
- Makes STEAM more accessible, more meaningful

Why STEAM Matters

- American children are lagging
- · School & life success isn't just about reading
- · Creativity is a top work skill

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't just about reading
kill

STEAM at the Library . What's your mission? . Literacy . School success . Lifelong learning	
Anyone can STEAM You don't need to be a content expert to use STEAM with library kids.	
Programs for Preschoolers	
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Why STEAM with preschoolers?

- Natural curiosity
- · Introduce concepts
- · Reinforce concept knowledge
- Vocabulary
- Hands-on learning

STEAM Stories

- Be intentional about your books
- Include non-fiction
- Tap the STEAM concepts in fiction.
- Talk!



STEAM Activities

- · Hands-on is integral
- Add an experiment
- Use tools
- Make something
- Provide options



Observation Stations

- Exploring things close-up
- · Sensory experiences
- Things that grow & change
- Tie to books



STEAM Programs

STEAM Preschool Storytime

- Start with a book
- Talk about the STEAM concepts
- Ask (and answer) questions
- · Hands-on activities
- Supply at-home options





Take-Home Kits

- Build around a topic
- Pack a few books
- Add some songs
- Include activity instructions



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Can you think of one of your existing preschool programs that you could modify to include a STEAM

Please type your answers into the Chat Box.

Programs for School-Age Children

Why STEAM with school-age children?

- Curiosity
- Reinforce basic concepts
- Multiple literacies
- Creative problem-solving
- Developing personal interests

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Science Programs

- · Introduce your concept
 - Books!
- Images & videos!
- Take questions
- · Pose a challenge
- Time to build
- Test & observe



Technology Programs

- · Meet kids where they are
- Introduce new tech
- Tablets & media creation
- · Circuits & electricity
- Programming & gaming



Engineering Programs

- Build something
- Give direction, but leave room for creativity
- Variety of materials
- Share examples
- Test & compare structures



STEAM Programs

- Find the STEM potential in arts & crafts
- Create with atypical materials
- · Provide context for activities



Math Programs

- Don't call it a "math program"
- Find the math in games
 - Puzzles!
- Board games!
- Spatial thinking
 - Origami
 - Simple weaving



POLL

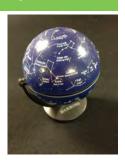
Can you think of one of your existing school-age craft programs that you could turn into a STEAM program?

Please type your answers into the Chat Box.

STEAM Services

Displays

- Make them attentiongrabbing!
- Fiction and non-fiction
- Range of reading levels
- · Visual interest
- Realia



Databases & Apps

- Highlight what you've got!
- Shelf talkers
- Tablet time
- Handouts
- · Demo in programs



STEAM Readers' Advisory Things to keep in mind: Non-fiction isn't just for homework Different ways of reading Stories with STEAM themes Pairing materials **POLL** Do you venture into the non-fiction stacks when doing readers' advisory with children? Please type your answers into the Chat Box. What you need, and where to find it.



Resources: Blogs The Show Me Librarian Library Makers Little eLit Abby the Librarian Other Blogs Teach Preschool PreKinders



Supplies to Start Consider your STEAM service goals Gather recyclables Procure the basics

Funding, Grants, & Partnerships Budget No amount is too small Don't be too modest Grants LSTA Grants Friends of the Library Private Grants

Wrapping Up

STEAM has a place in public library youth services

Local Businesses
 Local Schools

- Existing programs can be modified with STEAM aspects
- STEAM services means more than just programs
- Lots of resources are available to help

Questions?
Amy Koester @amyeileenk
amy.e.koester@gmail.com http://showmelibrarian.blogspot.com
nttp://snowmelibranan.blogspot.com
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