



Full STEAM Ahead

Engaging Children and Teens



Presented by ...

Carrie Kasperick, Monmouth Public Library

Jessica Marie, Salem Public Library

Sonja Somerville, Salem Public Library

Preschool Programs

Discovery Kids (Descubrimientos)

\$ - \$\$



We are all scientists and use elements of the scientific method every day:

- Observing
- Finding patterns and relationships
- Predicting.
- Communicating Asking questions
- Experimenting
- Sorting
- Measuring and estimating
- Designing and making models

Discovery Kids (Descubrimientos)

\$ - \$\$



- Integrating stories with art & science activities
- Promote and demonstrate dialogic reading

Discovery Room

\$-\$\$\$\$



- Hands-on learning room
- birth through elementary
- 4 themes per year



DR: learning stations on the cheap!



- Metal/Felt covered boards
- Small train tables
- Cube shelving units
- PVC structures

Elementary Programs

Full STEAM Ahead

\$\$\$



- Afterschool elementary workshop series
- Hands-on interactive participation

More about Full STEAM Ahead

\$\$\$



- LittleBits maker workshops
- Yoga Go! movement program
- Star Wars READS
- OMSI Discovery Dome

Creative Kids

\$-\$\$\$



- After school arts and crafts
- 2nd-5th grade
- Basic handicraft skills
- Cultural exploration

Explorer Kits

\$\$\$



Encouraging science exploration at home

Positives: Very popular, almost always all checked out, encourages families to do activities together.

Negatives: Space limitations, missing pieces, cost for replacement items

Themes include: Night sky, maps and navigation, rocks & minerals, bugs & insects, Wonders of water, science lab.

Tinker Tech Time



\$\$\$

- Dot and Dash
 - LittleBits Gizmos and Gadgets
 - Magna Tiles
 - Snap Circuits
 - Build a Droid with LittleBits
-
- After-school drop-in program
 - Kits are checked out for in-library use
 - Parental guidance required

March Into Non-Fiction Reading Challenge

HMMMMM.....



WHAT'S NON-FICTION?

FREE BOOKS!



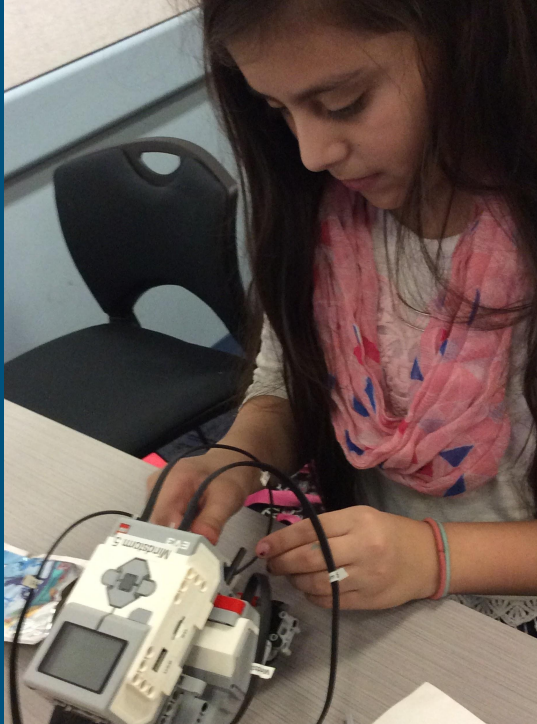
\$\$\$

- Reading's not just for summer any more!
- Kids read from at least 4 different categories
- Prize = Free Non-Fiction Book

Teen Programs

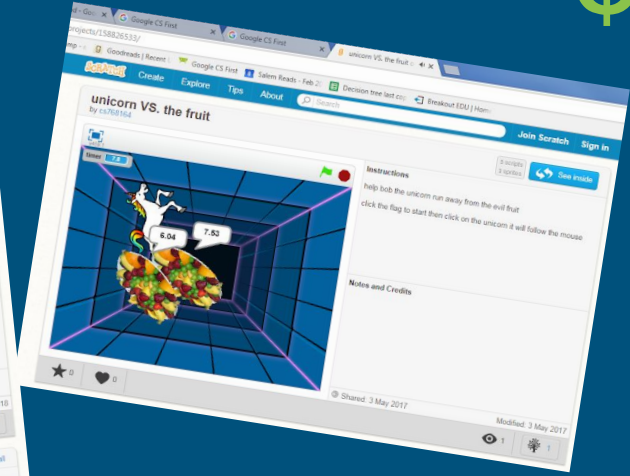
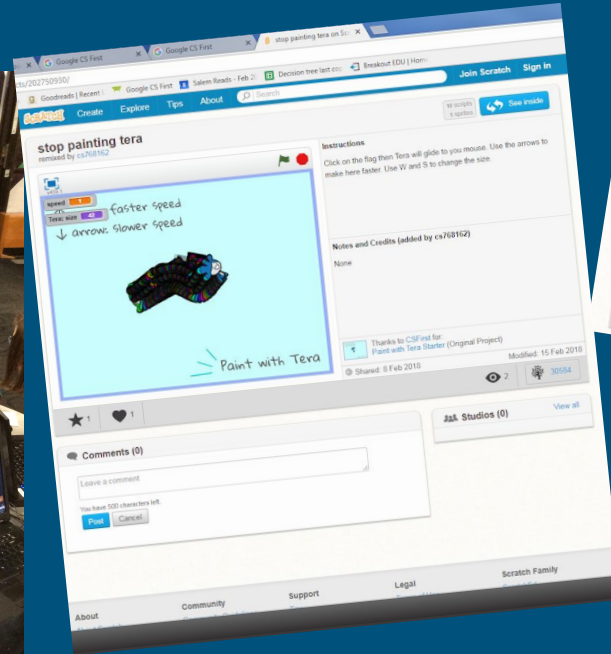
Robots and Circuits

\$\$\$\$\$\$



- Grant-funded purchase of Finch and LEGO Mind Storm robots and MaKey Makey boards
- Focus on coding, construction, and problem-solving
- Lots of potential for open-ended exploration

Coding Camp with CS First



- Free curriculum and materials available from Google CS First
- 1-2 hours for 8 weeks
- Gurus vs instructors - anyone can do it!

Escape Rooms & The Amazing Race \$\$



- BreakoutEDU model
- Avoids legal problems
- Puzzle and problem solving
- Use theirs or invent your own!

Exploring the Skies

\$\$



- Combination of lecture and hands-on



- Partnership with experts
- Chemeketa Community College and OMSI



- Leave lots of time for questions

All-Ages Programs

Ready, Set, Eclipse!

\$\$\$



- All library event
- www.starnetlibraries.org
- Lectures & family STEM activities

Ask the Experts



- Draws on available community experts
- Emphasis on activity tables vs information tables

Department of One

NASA @My Library

NAML in Action

- Thematic Kits
- Online community
- Grant \$\$
- Training
- Commitment



Galaxy Jars with NAML
Space Station Background



WOU Eclipse Presenter



Space Slime

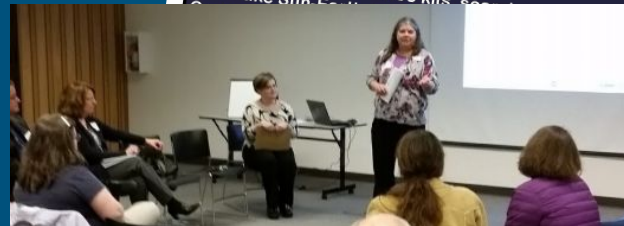
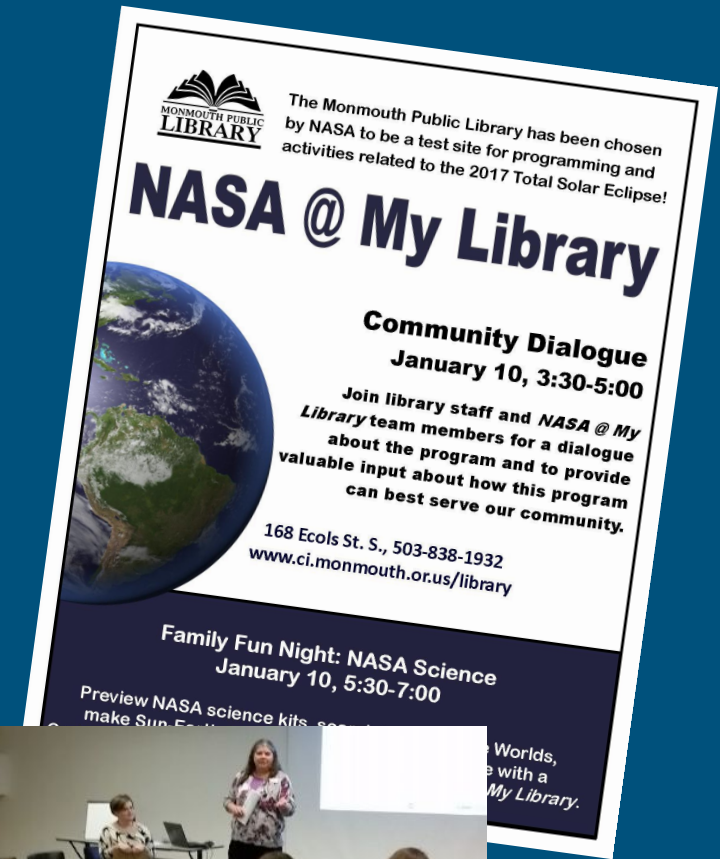


Sensory Planets
High School Helpers

Community Dialogue

- Food
- Target organizations
- Explore needs/wants
- Reach out, Get out

e:///C:/Users/monref01/AppData/Local/Microsoft/Windows/NetCache/IE/YRNSI014/Community-Dialogue-Guide-102317.pdf



Money

Need more money? Ask!

- Grants
- Friends and Foundations
- Wish Lists
- Local businesses and organizations

Let's Play!