

STEAM : TINY LIBRARIES CAN DO IT TOO!

JAMIE ALLWINE – WINLOCK TIMBERLAND LIBRARY

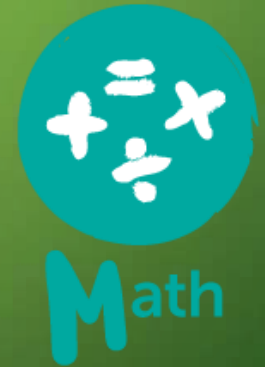
JENNY PENOYAR – SOUTH BEND TIMBERLAND LIBRARY

KARLYN SPEVACEK – TIMBERLAND REGIONAL LIBRARY - YOUTH SERVICES





STEAM



WHY SHOULD LIBRARIES EMBRACE STEAM?

- Statistics
- Future Jobs
- Fun
- Early Exposure



SOUTH BEND TIMBERLAND LIBRARY



- South Bend Library
- Community
- Start of STEAM
- Community partnerships

WINLOCK TIMBERLAND LIBRARY



- Winlock Timberland Library
- My Community
- Start of STEAM
- STEAM Today

STEAM RESOURCES AND FUNDING

- Grants – Regional & Community
- Friends of the Library
- In-kind donations
- Washington STEM – www.washingtonstem.org
- Washington State STEM Education Foundation - washingtonstemeducation.org
- Northwest Learning and Achievement Group – www.nlagroup.com
- Washington State Library - www.sos.wa.gov/library

LEARNING CURVE

- Many STEAM items comes with little/no documentation
- Company website
- YouTube
- Washington State Library
- Observe others
- If you can get the kids started, they will teach you!

ROBOTS

- LEGOS Mindstorms EV3
Education vs. Retail
- Eggbots
- Cubelets
- Ozobots
- WeDo 2.0
- Dash & Dot
- Code-a-Pillars



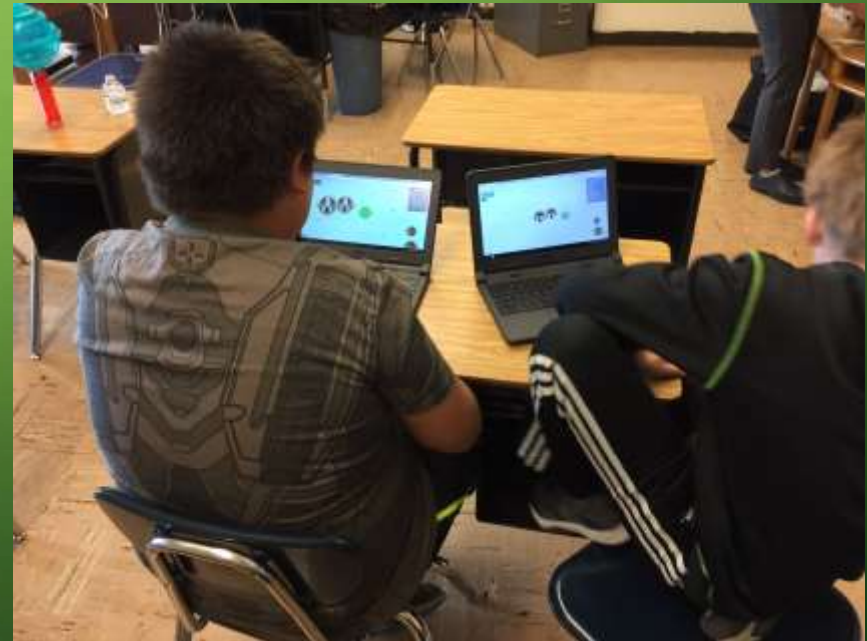
CIRCUITS & ELECTRICITY

- Snap Circuits
- Roominates
- Makey Makey
- Squishy Circuits
- Paper Circuits



CODING

- Prenda – www.prenda.co
- Google SC First – www.cs-first.com
- Hour of Code – www.hourofcode.com
- Code.org
- Scratch – www.scratch.mit.edu



LOW TECH

- Kinetic Sand
- Rocks
- K'NEX®
- Straws & Connecters
- Brain Flakes
- Magnatiles
- Q-BA-MAZE
- LEGO® Bricks
- Marbles
- Bargain Tech



VIDEO GAMES



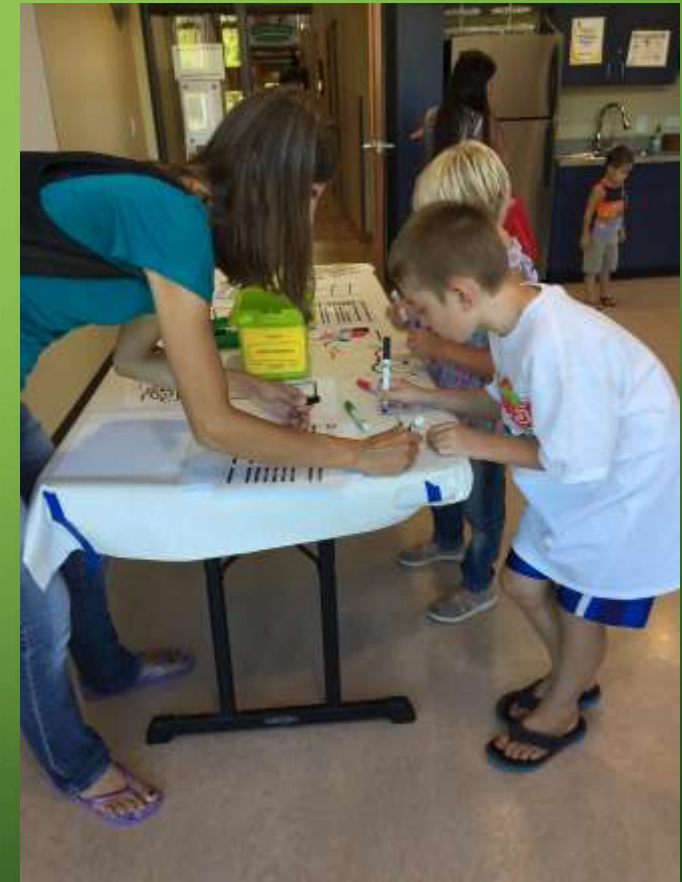
BUILD YOUR OWN VIDEO GAMES



MINECRAFT



Using STEAM in Outreach



The background is a dark green gradient. In the four corners, there are decorative white line-art patterns resembling circuit traces or neural network connections. These patterns consist of straight lines of varying lengths and angles, ending in small white circles.

Questions?

Just Do it!!

Let's Do it!!!