SAFFORD CITY- GRAHAM COUNTY LIBRARY



DESIGNING AN ENGAGING EXPLORATION SPACE WITHIN YOUR LIBRARY TO PROMOTE STEAM LEARNING

















INTRODUCTION

Lesley Talley Assistant Library







Araceli Moreno Sr. Library Technician

STEAM IN OUR LIBRARY

- STEAM programming has been a focus since 2006
- Originally twice a month, mostly out of town presenters
- Single class field trips have been offered since 2012
- All grade visits have been offered in the last 4 years
- Field trip requests have increased in the last 4 years







WHAT IS AN EXPLORATION SPACE

STEAM Exploration Space





WHY THESE SPACES ARE IMPORTANT

Key Reasons:

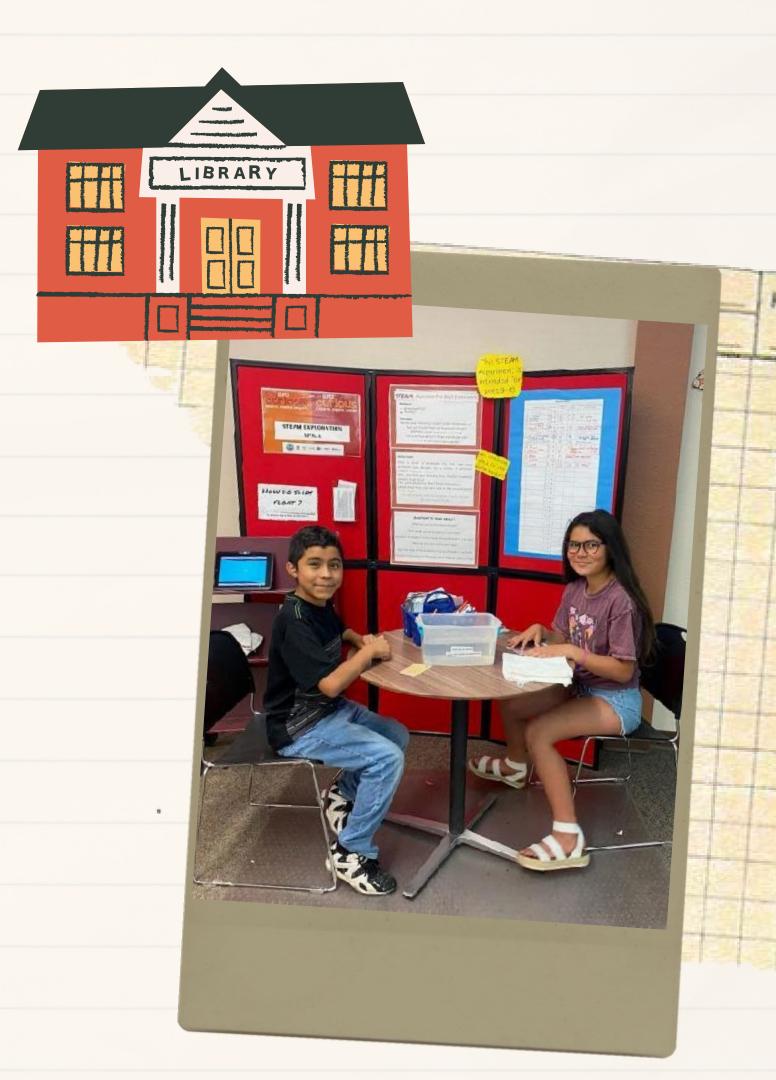
- Real- world relevance
- Preparation for future careers
- Develops Critical thinking & Problem Solving skills.
- Fosters Curiosity and Creativity
- Enhances Diversity and inclusivity.

ROLE LIBRARIES PLAY

Why libraries?

Libraries play a crucial role in STEAM education. We serve as a community hub, ideal place to engage the public in STEAM related activities, programs and discussions.

- Access to resources
- Technology and tools
- Programming & Makerspaces
- STEM/STEAM collections



HOW TO START

YOU DO NOT HAVE TO BE AN EXPERT! ANYONE CAN DO IT!

Step 1: Identify optimal spot S within your library.

- Does not have to be a room.
- Central location
- Determine space necessities (table, chairs, portable display board, ect.)



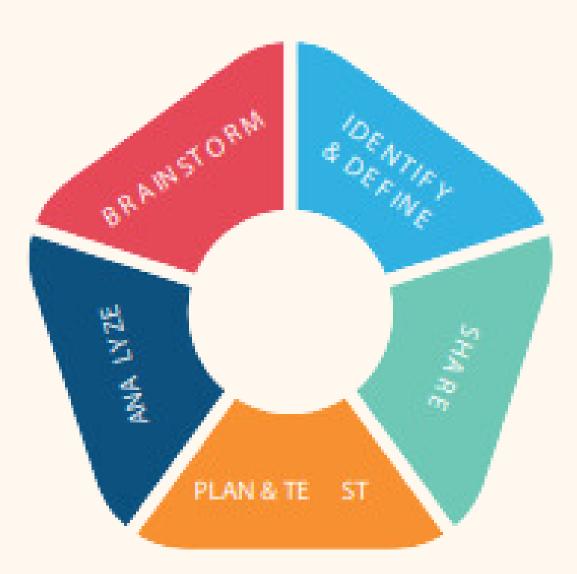
STEP 2: DETERMINE YOUR CONTENT

KEEP IN MIND THE "PURPOSE" OF THIS SPACE

- PICK A DISCIPLINE OR INCLUDE ALL 5
- PICK A PROJECT
 - HANDS-ON ACTIVITY, DISPLAY, GAME
- HOW OFTEN

THIS IS A SPACE NOT A PROGRAM

"STUDYTHE SCIENCE OF ART. STUDYTHE ART OF SCIENCE." - LEONARDO DA VINCI



RESOURCES

The Show Me Librarian

https://showmelibrarian.blogspot.com/p/all-things-steam.html

Star Net - STEAM activity clearinghouse -

https://clearinghouse.starnetlibraries.org/168-im-super?p=3

SciGirls Connect

http://www.scigirlsconnect.org/

Pinterest-https://www.pinterest.com/

School Library Journal

BOOKS! - Based for in home projects that do not require many materials

Local partnerships-local schools, businesses (Freeport Mine program)

CONTENT CONTINUED

Amelia Merced Bióloga | Biologist:

Dr. Amelia is a microscopist at the Institute of Neurobiology in Old San Juan, Puerto Rico. She received her PhD from the University of Southern Illinois, where her research was focused on moss stomata. She is particularly interested in the development and diversity of plant structures, especially bryophytes. Amelia has designed environmental learning curriculum and led school nature classes.

Amelia es microscopista, o sea una científica que trabaja con microscopios, en el Instituto de Neurobiología en el Viejo San Juan, Puerto Rico. Recibió su doctorado de la Universidad del Sur de Illinois, donde su investigación se centró en los estomas de musgo. Ella está particularmente interesada en el desarrollo y la diversidad de las estructuras vegetales, especialmente las briófitas. Amelia ha diseñado un currículo de aprendizaje ambiental y ha dictado clases de naturaleza en escuelas primarias y secundarias para Casa Pueblo y Bosque Escuela. Amelia vive en Puerto Rico y tiene dos hijos. Juntos, les encanta visitar El Yunque Rainforest para observar todo el musgo y la vida vegetal.





Scan the QR code to learn more.



PROMOTE DIVERSITY AND INCLUSION



AAAS IF/THEN

Ambaggadars



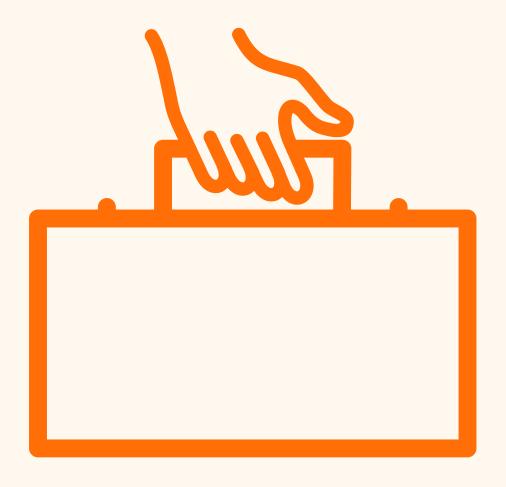




CONTENT CONTINUED

MATERIALS TO ENCOURAGE STEAM EDUCATION BEYOND THE LIBRARY WALLS







LASTING IMPACT

