What word comes to mind when you think of highly successful STEM exhibitions for youth?

To 22333, text 480627 and your word.

Recipient (22333)

480627 and your word

https://www.polleverywhere.com/free_text_polls/2ayeXXU8HibalP8
inspiring every child to imagine, create, discover, and explore through the power of play!
Hello!

Here's who's who!

- Deb Dunkhase, The Iowa Children's Museum, Executive Director
- Aimee Mussman, The Iowa Children's Museum, Associate Executive Director
- Kristen Missall, University of Washington, Associate Professor School of Psychology
- Laura Geake, The Iowa Children's Museum, STEM Education Specialist
Impactful STEM Exhibits – Collaborative Design!
Advancing Informal STEM Learning RFP
Due November 7, 2018
Awarded a $1,275,430 STEM Innovation grant from the National Science Foundation.
LESSONS LEARNED

Personnel
  – Right mix, right time.

Theme development
  – Fit to priorities.

Grant writing and research design
  – This is not a creative process.

Budget
  – There is never enough money.

Territory
  – Does everything have to be a battle?
NOTION OF MOTION: SCIENCE OF SKATEBOARDING
The PEAR Institute: Partnerships in Education and Resilience
Dimensions of Success

Features of the Learning Environment
- Organization
- Materials
- Space Utilization

Activity Engagement
- Participation
- Purposeful Activities
- Engagement with STEM

STEM Knowledge & Practices
- STEM Content Learning
- Inquiry
- Reflection

Youth Development in STEM
- Relationships
- Relevance
- Youth Voice
Why Does Quality Matter?

Change in STEM Attitudes across Quality Levels

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https://youtu.be/px8ae4x241o
Dimensions of Success

STEM Knowledge & Practice

STEM Content Learning

Are STEM ideas presented accurately?

*Does exhibit help kids make connections between STEM ideas?*

*Does exhibit avoid having kids simply parrot back definitions or memorize facts?*
DoS Wisdom Trail

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Impactful STEM Exhibits – Collaborative Design!

Lessons Learned -

• **Recruit a Diverse Exhibit Development Team**

• **Prototype While Designing with DoS – Plan for Pre and Post Analysis**

• **Allow More Time Than You Think You’ll Need**

• **Believe in the Value of an Iterative Process**

• **Keep Focusing on Quality STEM Learning and the Exhibit’s Learning Objectives**