STEM4KIDZ Promotes hands-on, inquiry based experiences for young children Welcome Self... My name is Whitney Jenkins STEM4KIDZ

STEM Urgency

Why STEM4KIDZ?

STEM Urgency

Shawnee State University to host Super STEM Saturday on their campus as a pre-college experience for students in grades K-5



STEM4KIDZ Kick-Off



Established a partnership with



SSU Clark Planetarium offered for FREE shows!

Marketing Plan

Flyers were created and delivered to all

Schools in Scioto County
 Yard signs were created and placed strategically in high traffic areas

Radio and newspaper interviews were held to promote the event

· Google was used to manage free

Facebook & Instagram were used to

Event Preparation

Organized the materials:

- (24) STEM Stations - Grade Bands: K-1; 2-3; and 4-5

Assigned volunteers to stations

Sent reminders to all the volunteers about start time

Decorated the ballroom the night before the event



Met with volunteers to explain the science behind the activity to guide station discussions

Sustainability Efforts



So, I wonder...

Bringing it Together

Super STEM Saturday

If it is predicted that STEM jobs are to increase to over a million by 2020, what are we going to do to get people the skills and knowledge needed to help our country remain an innovation leader?

INVITATION

Annalachian STEM4KIDZ Challenge

Ask your local elementary school(x) to hold a STEM-49DE Day by reading a piece of children's illerature from Dr. Seuss & complete a STEM activity alligned to the book

#STEM4KIDZ





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Welcome

Self...



My name is Whitney Jenkins

Graduate of Northwest High School (Scioto County), Class of 2016

Plan to attend Miami University to study biological science with a co major in pre-medicine

 Background includes attending many pre-college experiences at Miami, Northwestern, Purdue and Shawnee State Universities taking science courses not available at my school - which due to finances, is something many kids in my area do not get to do because of access

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What I have learned from these experiences and believe:

STEM is for all kids!







Demographics

- District spans 186 square miles
- Buses run 3,000 miles a day
- Above 70% Economically Disadvanatged
- Enrollment is 1,662
- 2nd in Scioto County w/FASFA completion
- Top 20 ACT Club





My story... STEM4KIDZ

Create STEM opportunities for young, rural students in grades K-5

Expose young children students to STEM thinking with the hope they **believe** STEM jobs are attainable









STEM Urgency

US Department of Commerce reports **STEM jobs** will increase by **17% in 2018**

JD Chesloff, STEM E.ducatigon Must Start in EARLY Childhood. Education Week. March 5, 2013. Web. April 5, 2015.

Georgetown University published a study that shows over 76 million **baby boomers** will soon retire with only **51 million** working people to **replace** them.

Center for American Progress and Center for the Next Generation published a joint report stating more 1/2 of US Post secondary students (college) will drop out and not receive a degree

United States Pentagon reported nearly 75% of people ages 17-24 do not meet the requirements to join the United States Military



STEM Urgency

US Department of Education reports only **16%** of high school seniors are ready for **college level**, STEM related **math** courses & only **30%** are ready for college level, STEM related **science** courses

63% of teenagers say they have *never* considered a STEM career

United States **elementary students** are reported to receive **less than (3) hours** a week of science education

92% of **traditional jobs** (by 2018) are projected to require **some type** of **post secondary** training



Why STEM4KIDZ?

Research shows **early STEM exposure** helps develop
creativity & problem solving in
young children

Joshua M. Sneidma, Engaging Children in STEM Education Early! Natural Start Alliance. December 2014. Web. April 5, 2015.

Young children are naturally inquisitive

Young kids ask lots and lots of "Why" questions as a way to make sense of their own learning

Carnegie Foundation Commission

Believes we must have a **strong foundation of math and science thinking** in order for our nation
to stay competitive as an
innovation leader in a global
workforce



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Shawnee State





Marketing Plan

- Flyers were created and delivered to all schools in Scioto County
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- Radio and newspaper interviews were held to promote the event
- Google was used to manage free registrations
- Facebook & Instagram were used to advertise







Bringing it Together

Recruited Volunteers

Friends, **family**, **teachers** and **students** from other schools all agreed to help







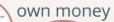




STEM Activities

Se

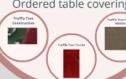
Researched online for STEM activities which aligned to children's literature by Dr. Seuss and shopped for materials bought with my





Costumes & Props

Shopped for costumes, Sketched characters, Made life size Truffla Trees Ordered table covering





Recruited Volunteers

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Costumes & F



Family of Friends







My BFF's





Biggest Kids of All







Teacher & 4-H Advisor





Scioto County School Volunteers



Portsmouth River Days Festival Candidates and Court Members



estival Candidates embers

Costumes & Props

Shopped for costumes,
Sketched characters,
Made life size Truffla Trees
Ordered table covering





Truffla Tree Trunks



Truffla Tree Forest Wildlife





Truffla Tree Construction





Truffla Tree Trunks





Truffla Tree Forest Wildlife





STEM Activities

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STEM Station Activities









http://www.livebinders.com/play/play? id=1862721&backurl=/shelf/my



All for under \$300





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Sustainability Efforts



Hosted a booth at the Scioto County Fair and spoke with over 1,500 people about STEM4KIDZ

Created links to online STEM resources off the NHS website

http://www.northwest.k12.oh.us/index.php? option=com_content&view=article&id=3127<e mid=844 http://www.northwest.k12.oh.us/index.php? option=com_content&view=article&id=3128<e mid=845

Created a GoFundMe to attempt raise money for STEM4KIDZ that would: http://www.gofundme.com/stem4kidz

- Expand by giving (2) free summer K-5 scholarships to each county school SSU's for Kids On Campus Program
- Secure funding to continue Super STEM Saturday

Exploring copyright and publishing through STEM4KIDZ as educational materials

So, if you can help me, please see me after this presentation!



State Senator Uecker





Scioto County Fair





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If it is predicted that **STEM jobs** are to **increase** to **over a million** by **2020**, **what are we going to do** to get people the skills and knowledge needed to help our country remain an innovation leader?

DS Examiner. The Ultimate STEM Guide for Kids: 239 Cool Sites About Science, Technology, Engineering and Math. July 14, 2014. Web. April 5, 2015.

UNLESS, someone like YOU cares a whole awful lot, NOTHING is going to get better. It's NOT." ~ Dr. Seuss



skills untry

April 5, 2015.

t, uss

INVITATION

Appalachian STEM4KIDZ Challenge

on

Dr. Seuss' Birthday March 2, 2017

Ask your local elementary school(s) to hold a STEM4KIDZ Day by reading a piece of children's literature from Dr. Seuss & complete a STEM activity aligned to the book

Please post permissible pictures to Instagram at:

#STEM4KIDZ

STEM4KIDZ You Tube Clip



http:gofundme.com/stem4kidz Remember: #STEM4KIDZ Appalachian STEM4KIDZ Challenge



STEM4KIDZ You Tube Clip



http:gofundme.com/stem4kidz

Remember: #STEM4KIDZ

Appalachian STEM4KIDZ Challenge

Dr. Seuss: STEM Birthday Party

March 2, 2017

