**STEM4KIDZ**
Promotes hands-on, inquiry based experiences for young children

**Welcome**

**Why STEM4KIDZ?**
Research shows early STEM exposure improves creativity in problem-solving by young children

**What is STEM4KIDZ?**
Promotes hands-on, inquiry based experiences for young children

**STEM Urgency**

** STEM4KIDZ Kick-Off**
Established a partnership with Shawnee State University to host Super STEM Saturday on their campus as a pre-college experience for students in grades K-5.

**STEM4KIDZ**

**Event Preparation**
Organized the materials:
- LED STEm Kits
- Grids made by 3rd & 4th grade volunteers

**Motivation**
Assigned volunteers to stations
Sent reminders to all volunteers about start time
Decorated the ballroom the night before the event

**Bringing it Together**
Sent a list of volunteers to stations the day before the event

**Marketing Plan**
- Flyers were created and delivered to all schools in Scioto County
- Yard signs were created and placed on high traffic areas
- Flyer and email were disseminated across the county prior to the event
- Google was used to manage the volunteers
- Facebook & Instagram were used to promote the event

**So, I wonder...**
If it is possible that STEM jobs are in decreased in the next 5-10 years, what are we going to do to get people the skills needed to keep our economy going, and make us an innovation leader?

**INVITATION**
Apparel Commitment Deadline:
11/15/2019
Tickets Available:
11/20/2019
The STEM4KIDZ Gala takes place:
12/4/2019
www.stem4kidz.org/gala
#STEM4KIDZ

**Sustainability Efforts**
-sent out invitations via email
-used recycled paper for printing materials
-used sustainable materials for decorations

**Super STEM Saturday**
Materials sent out:
- LED STEm Kits
- grid made by 3rd & 4th grade volunteers

**STEm ACTIVITY**
Demonstrated key concepts:
- LED STEm Kits
- Grids made by 3rd & 4th grade volunteers

**So, I wonder...**
If it is possible that STEM jobs are in decreased in the next 5-10 years, what are we going to do to get people the skills needed to keep our economy going, and make us an innovation leader?
STEM4KIDZ
Promotes hands-on, inquiry based experiences for young children

Welcome
Self...

WHY STEM4KIDZ?
Research shows early STEM exposure and success creates a stronger capacity for young children.

STEM4KIDZ Kick-Off
Established a partnership with Shawnee State University to host Super STEM Saturday on their campus as a pre-college experience for students in grades K-6.

STEM4KIDZ Urgency
The urgency of STEM education today is clear: the future workforce needs a strong foundation in STEM fields.

Event Preparation
Organized the materials:
- Created a timeline
- Assigned volunteers to stations
- Sent reminders to all volunteers about start time
- Decorated the hallway the night before the event

Bringing it Together
Many different elements come together to make an event successful.

So, I wonder...
It’s interesting that STEM jobs are so in-demand. Is it a problem for 2020 what are we going to do to get people the skills and knowledge needed to keep our country remain an innovation leader?

Marketing Plan
- Flyers were created and delivered to all schools in Scioto County
- Yard signs were created and placed prominently in high traffic areas
- Built a semi-social media presence, including a website and Facebook/Instagram accounts

Sustainability Efforts
Recycling initiative. The event provided recycling bins at each station.

INVIATION
Applicants committed to change...
In partnership with Shawnee State University,
300 College Street, Portsmouth, OH 45662
March 20, 2020

Please join us in making a difference!
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

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 Disadvantaged
- 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**


**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.


**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.
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
STEM4KIDZ Kick-Off

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

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

Costumes & Props
Shopped for costumes, sketched characters, made life-size Truffla Trees. Ordered table covering
Recruited Volunteers

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

Costumes & Props

Shopped for costumes and accessories for the event.
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
Costumes & Props

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

Truffla Tree Construction

Truffla Tree Trunks

Truffla Tree Forest Wildlife
Truffla Tree Construction
Truffla Tree Trunks
Truffla Tree Forest
Wildlife
STEM Activities

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

All for under $300
STEM Station Activities

http://www.livebinders.com/play/play?id=1862721&backurl=/shelf/my
All for under $300
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

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&Itemid=844


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!
Scioto County Fair
So, I wonder...

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?

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

Dr. Seuss: STEM Birthday Party

March 2, 2017