Girls Hackathon Project

Training for Trainers Conference
presented by ZAMWILL
18-19 January 2023
American Corner on the CBU Campus

Welcome to ZAMWILL

Founded in 2015, the Zambian Women's Institute for Learning and Leadership has been devoted to building the next generation of empowered, highly-skilled, innovative, and assertive girls and young women to create a better tomorrow.

ZAMWILL
Zambia Women's Institute for Learning and Leadership

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WHO WE ARE

We are the nonprofit women-led organization known as Zambia Women Institute for Leadership and Learning

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WHAT WE DO

Our women-led organization aims to EMPOWER girls and young women with innovation, entrepreneurship, and leadership skills through our mentoring and training programme.

Objectives

Participants will leave the workshop with strategies/tools for creating a more student-centered learning environment that builds student confidence;

Participants will understand and state the purpose of a hackathon and the ZAMWILL Girls' Hackathon Project

Participants will feel supported, connected, and appreciated for what they bring to the meeting and project.

We’re host a HACKATHON

A competition in innovation to bring people together to solve issues facing their communities.

Participants called “hackers” work together in teams on a specific challenge with a goal to create new solutions.

Ready, Set, DESIGN!!!

Select a bag read the card and design a solution to the challenge using only the materials in the bag to create a prototype in 15 minutes before presenting to the group.

➔ **Imagination**
Seeing the impossible or unreal

➔ **Creativity**
Using imagination to unleash the potential of existing ideas to create new ones

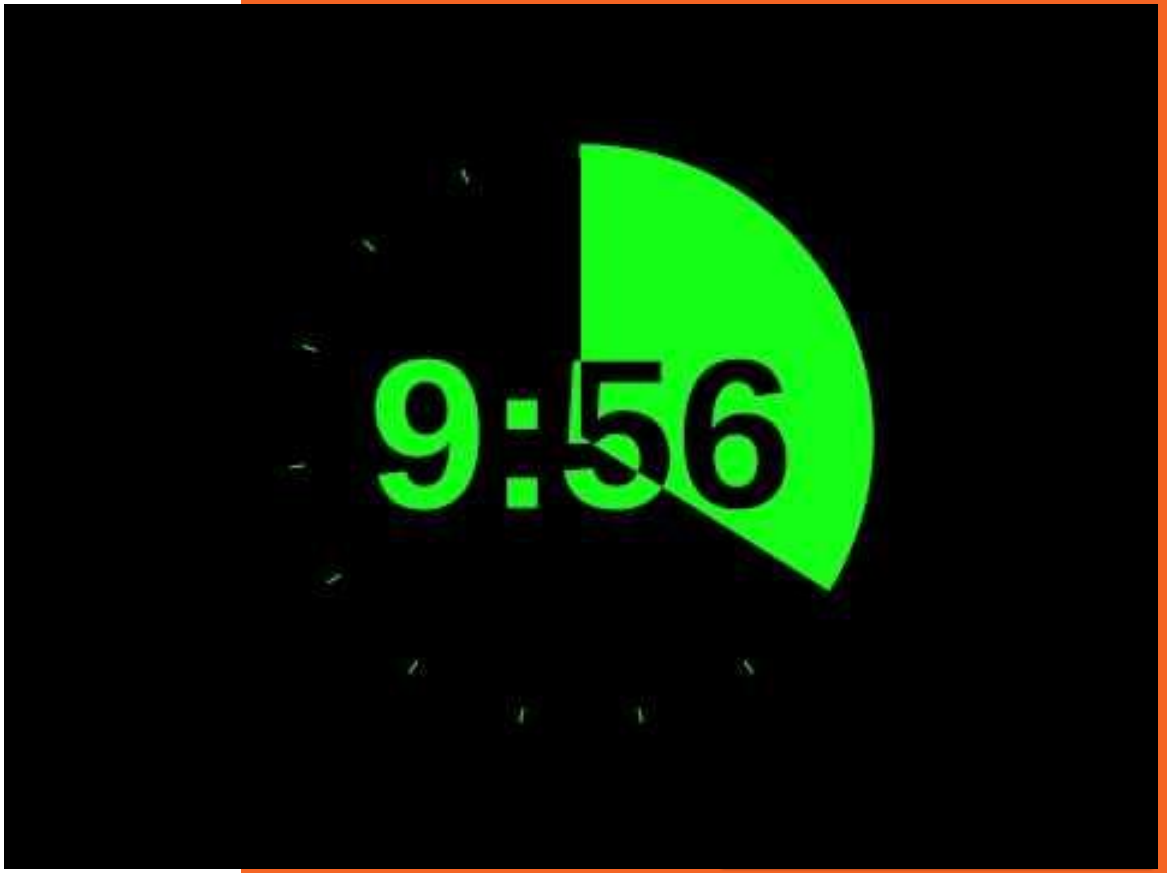
➔ **Innovation**
Practice of developing new ideas based on imagination and creativity

What is design thinking?

How design thinking can help you transform the way you develop products, services, processes, and organizations.

Dalitso Kasonde

TEA BREAK



Media Hour! Own Your Story.

(With a little help from your smartphone)

Tag the following:

@zamwillwins

@usembassyzambia

@blacktechlink

Use these hashtags

#zamwill

#Zamwill'sGirlsHackathonProject

#closingthedigitaldivide

#GirlsinSTEM

#empower.innovate.lead

Project based learning

Meet Moses Kayola Phiri, physics teacher at Chiwala Provincial STEM Secondary School. He's a STEM curriculum and instruction specialist. And a graduate of Copperbelt University.

LUNCH

ZAMWILL School

By the end of this session, you will set up your ZAMWILL School Profile and have access to assignments and resources for the hackathon

➔ **What**

Our Learning Management System will allow us to collaborate no matter where we are.

➔ **Who**

Teachers-share resources with each other and students

Students can communicate with each other, teachers, and mentors

Tonight's Homework

Part 1: Using the skills you learned during the *Media Hour with Chibangu* take **3-5 photos** that best tell a story about you. Then upload your photos in your school's folder in the Gallery (you complete this during breakfast, break or lunch on Thursday). You will need the photos for the Story Maps session on Thursday.

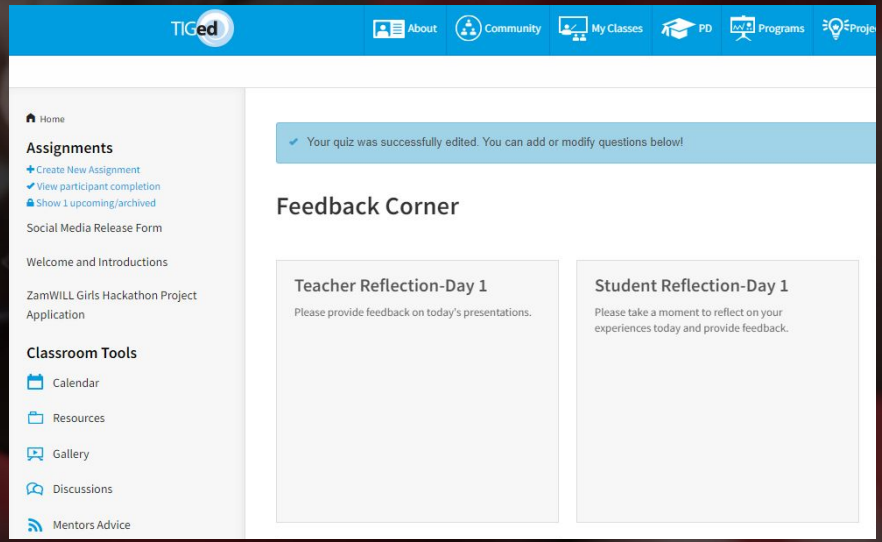
Part 2: go to www.storymaps.com and create a free account.

Reflection and Evaluation

In the ZAMWILL Classroom, go to the Feedback Corner and complete today's survey

Tip

Reflection is one of the most underused yet power tools for success.
-Richard Carlson



Welcome Back!

Day 2 will be filled with more hands-on, minds-on activities to prepare you for HACKATHON success.

Done AA docs.google.com

How to Join

Teacher Registration Link:

http://zamwill.tiged.org/register

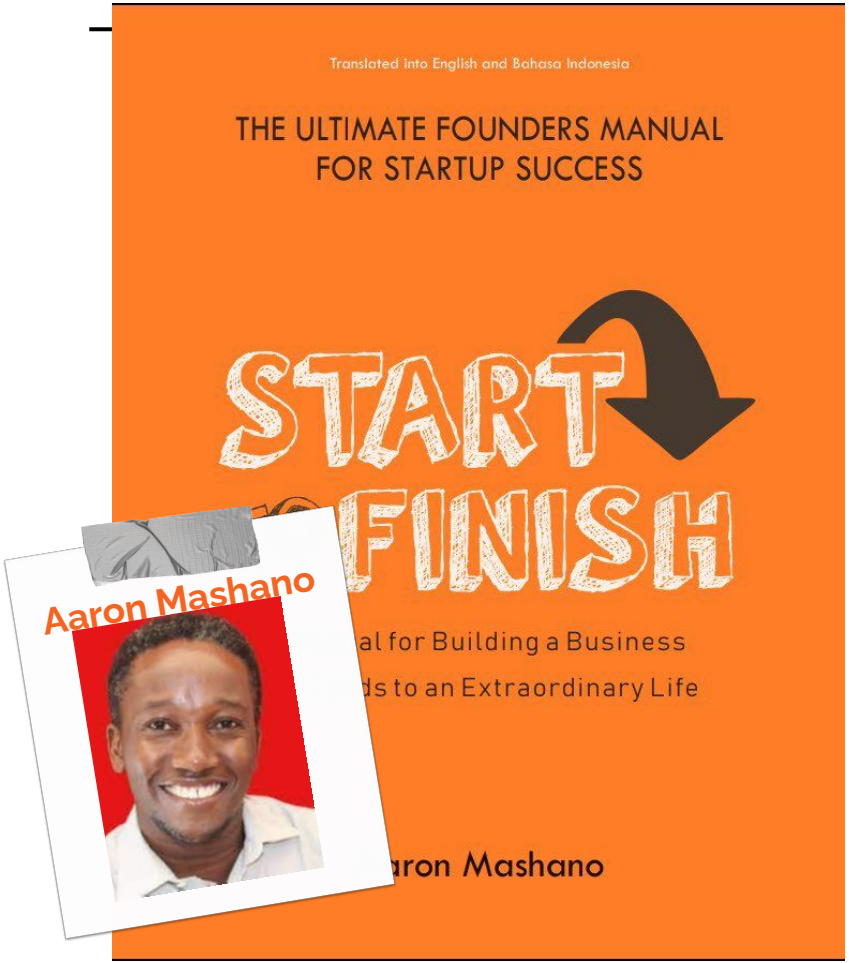
Password zambia2021

For Students

Guest Registration Link:

https://zamwill.tiged.org/hackathon/guest/

Password Welcome



Business Innovation and Social Entrepreneurship

Meet Aaron Mashano. Aaron has founded numerous startups before finding success. He believes anybody can achieve if they put their minds and a lot of effort into it.

TEA BREAK

10 Reason Students Should Learn Coding

1. Allows students to create content, not just consume it
2. Empowers students with tools to express themselves in new and cool ways
3. Teaches storytelling
4. Provides a safe place to take risks and fail
5. Builds self-confidence
6. Supports many principles of mathematics
7. Teaches problem solving skills
8. Coding is a new type of literacy
9. Develops collaborative relationships
10. Coding can help humanity

Computational Thinking

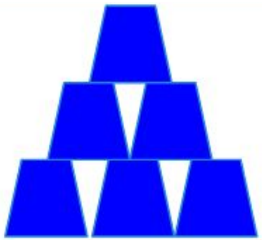
Allows sus to take a complex problem, understand what the problem is and develop possible solutions. We can then present these solutions in a way that a computer and a human can understand.

LUNCH

Cups Stacking

Leadership and Teamwork

CUP Stacking Challenge Discussion

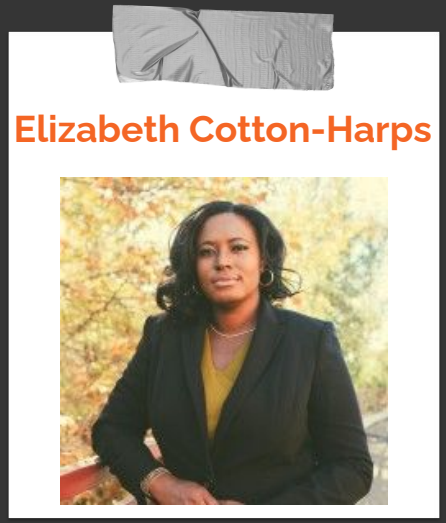


- "Was anyone frustrated during this activity? How was that frustration handled?"
- "What did you learn about yourself and the group you worked with?"
- "Why was teamwork so important in this activity?"
- "What other skills did your group have to use to complete this activity?"
- "What was hard about teamwork? Communication?"
- "What real world situations have you been in where you needed to use good teamworking skills? How did you handle that situation?"

Everyone is a storyteller.

The Art of Telling Your Story

Meet Elizabeth Cotton-Harps. Elizabeth is the executive director of Black Tech Link. We'll let her tell her story.



Our Hackathon Challenge

The theme of the ZAMWILL Girls Hackathon Project is **SOCIAL GOOD**. Today, you've begun laying the foundation for the hackathon. And between now and March your task is to create a team of girls to solve a problem facing your community in one of the following challenge areas:

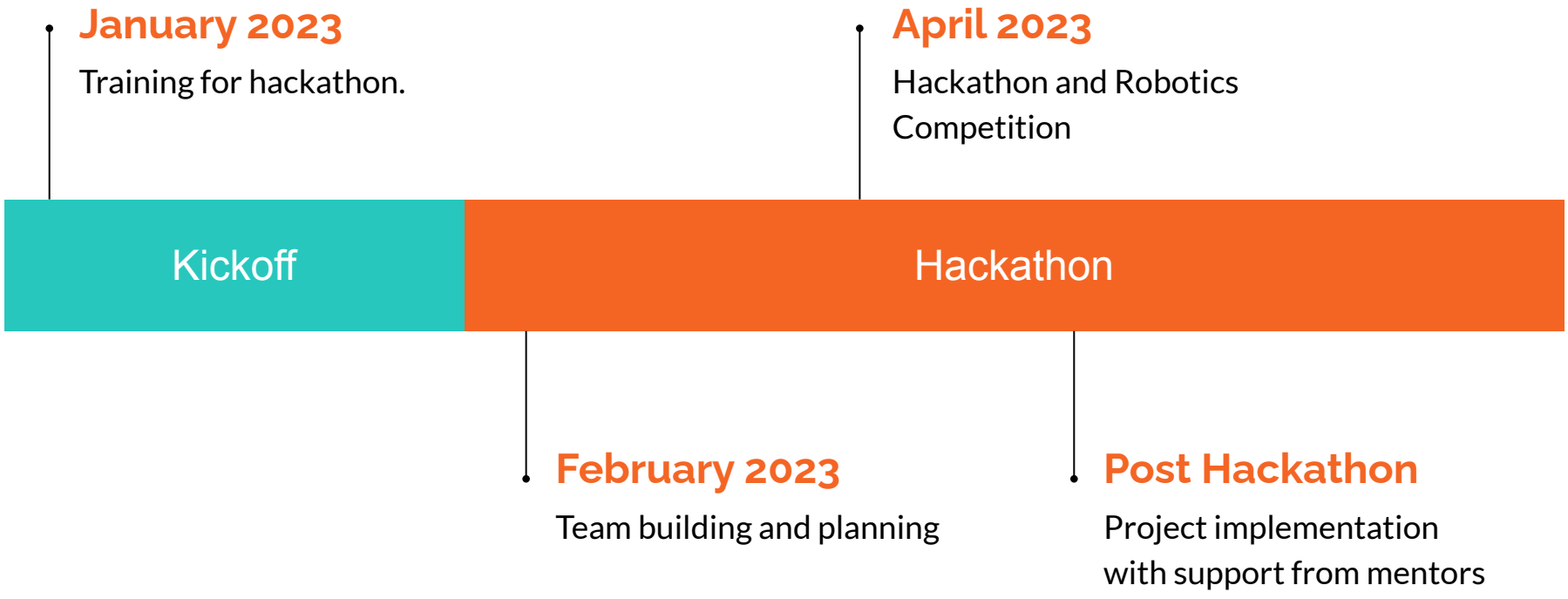
- ➔ **Clean Energy**
- ➔ **Smart Cities**
- ➔ **Education and Technology**
- ➔ **Biodiversity and the Green Economy**
- ➔ **Agriculture and Food Systems**
- ➔ **Transportation**
- ➔ **Health**

Closing

We hope your feeling confident around your product or idea for the hackathon:

- **Timeline**
  What has been accomplished and what might be left to tackle?
- **Testimonials**
  What are people saying about the hackathon?
- **What's next?**
  Reflection and planning

Timeline


January 2023
Training for hackathon.
April 2023
Hackathon and Robotics Competition
Kickoff
Hackathon
February 2023
Team building and planning
Post Hackathon
Project implementation with support from mentors

What people are saying

I feel like its an opportunity to learn more about the things happening... around the world.

Lubutoteam

We can't wait to learn more cause it is so fun

Parklands School

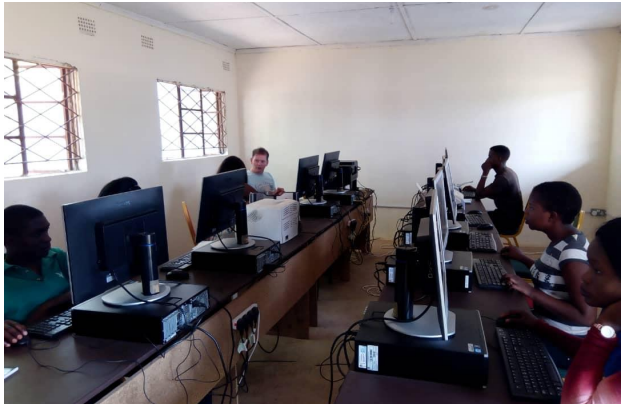
With all the available tools and resources we do feel supported.

Ndeke School

Our HACKATHON

We're inviting 110 girls from 5 Ndola and 6 Kitwe Secondary Schools to "hack" their communities most urgent problems addressing:

- clean energy
- smart cities
- education and ICT
- green economy
- food systems
- transportation
- health
- digital solutions



Good luck!

We hope you'll use the information learnt to go out and deliver a memorable pitch for your product or service!

But remember you're not alone. You have tools at your fingertips and you're just a WhatsApp message away from support.

We're looking forward to March!

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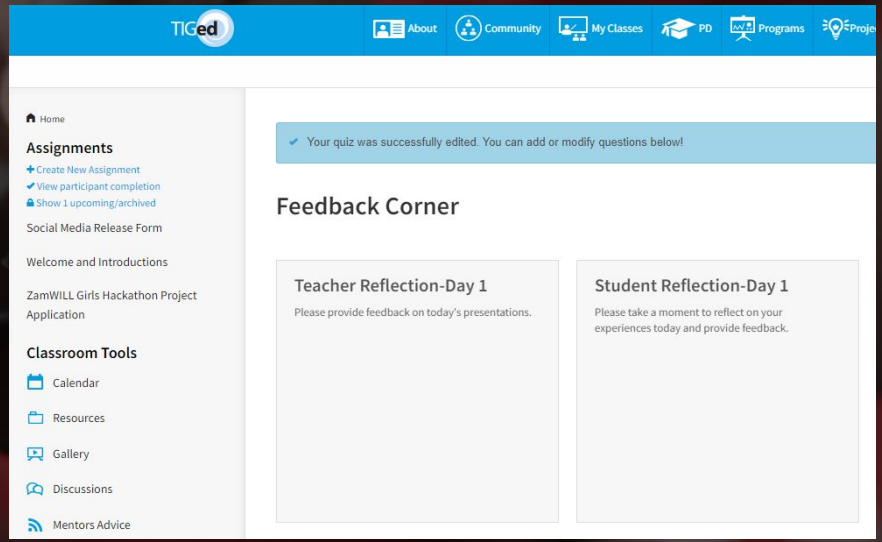
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