

Twin Science Education STEM Program



Figure 1 Students building circuits



Figure 2 Students programming circuits

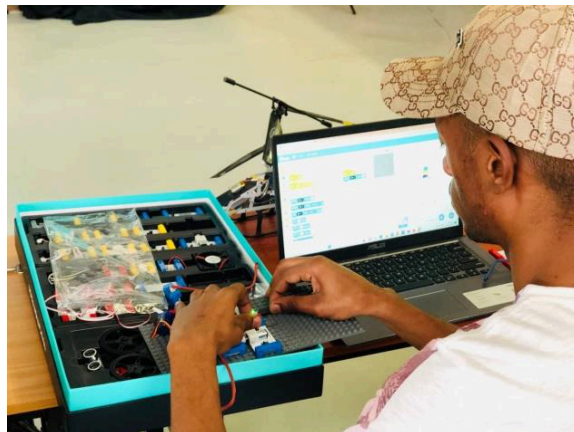


Figure 3 Experimentation and coding

OVERVIEW	
Flying Labs	Flying Labs Namibia
Location	Windhoek, Namibia
Dates	12/04/2024 - 14/06/2024
Length (number of days)	10 weeks (every Wednesday and Friday)
Sector program (optional)	STEM/Youth
Format	In-Person
Co-organizer if applicable	Mindsinaction
SDGs	GOAL 4: Quality Education GOAL 5: Gender Equality

	<u>GOAL 10: Reduced Inequality</u>
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SCOPE & OUTCOMES

Type of training	Youth/STEM training
Goal of the training	To empower the youth and workforce of tomorrow.
Expected outcome for participants	<ol style="list-style-type: none"> 1. Better collaboration. 2. Enhanced STEM skills. 3. Heightened creative thinking. 4. Sparked interest in the STEM fields.
Confirmed outcome after training	<ol style="list-style-type: none"> 1. STEM career guidance. 2. Build confidence among the participants. 3. Developed critical skills.
Eventual next steps	<ol style="list-style-type: none"> 1. Advancing onto Science and Electronics modules. 2. Participating in STEM competitions and Science fairs.

PARTICIPANTS

Profiles and number of participants	School children (8 - 16 years)
Name of participants' organizations	Various primary and secondary schools in Windhoek
Gender ratio	1:2 (3 girls and 6 boys)
Who paid for the training?	Parents of participants
Participant fee rate (if applicable)	N\$1,600.00
Scholarships offered?	N/A

CONTENT

Training component	<ol style="list-style-type: none"> 1. Theory 2. Practical
Training resources used	<ol style="list-style-type: none"> 1. 8 Twin Science Education kits 2. 8 laptops 3. 8 tablets

	4. 8 power banks
Approaches and methods used	<ol style="list-style-type: none"> 1. Training was adapted to the audience by considering the existing knowledge, learning styles, and interests. 2. Content, activities, and examples were customized to resonate with participants' backgrounds and age. 3. Training was designed to be hands-on, allowing the participants to engage directly with available resources. 4. Opportunities were provided for participants to apply the theoretical knowledge into practice. 5. Tasks were formulated, to solve real-world problems using learned concepts. 6. Collaborative projects through some simulated industry challenges.