NAVIGATION

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ADMINISTRATION

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We are proud to present "Aerospace Micro-Lessons." These lessons are easily digestible lessons focused on aerospace principles. Each lesson is broken down into grade levels and are meant to spark conversation and interest in aerospace. Lessons will range from engineering, to mathematics, to physics, to highlighting aerospace anniversaries -- all of which will be presented in a way that easily relates to your students.

The online STEM Education and Aerospace Micro-Lesson in Nigeria is an idea of Aerospace Palace Academy Nigeria designed to inspire, influence, and mould the next generation of aerospace scientists and engineers by providing a series of resources and programming to teachers, students, parents, and aerospace professionals. The programs enlighten and engage our global community of future aerospace professionals by helping them learn more about science, technology, engineering, and mathematics. The developing countries have suffered a series of decadence in Aerospace and STEM Education, therefore our mission is to stimulate a lasting interest in the STEM disciplines, with the goal of encouraging students to pursue careers in these fields. This is accomplished by actively involving students in the support of authentic research currently being conducted on the International Space Station (ISS) or in a NASA ground-based laboratory. Through collaboration with NASA, AIAA, Space Foundation and NASA researchers, we create educational mini-curriculum for the university, college, high school or middle school classroom that engages students as research assistants, providing data for the Principal Investigator.

OUR GOALS & OBJECTIVES

Our primary goal is to encourage STEM education in developing countries, positively impacting young people's education in STEM worldwide. Our STEM Innovation strives to achieve this goal by focusing on three primary objectives.

1. To encourage and inspire young people in developing countries to pursue post-secondary education and careers in scientific and technical fields by hosting STEM workshops that foster their interest.

2. To bring students from other developing nations to adopt our mobile application and attend our online and virtual schools to study science, technology, engineering, and mathematics wherever they are in the world.

3. To create supplementary programs and encourage implementation of STEM programs at the schools in Nigeria and other developing countries that support these students and encourage them to view science, technology, engineering, and mathematics as a tool to instill innovative and problem-solving skills.

4. Provide an educational opportunity for students, teachers and the general public to learn about space exploration, space technologies and satellite communications;

5. Provide an educational opportunity for students, teachers and the general public to learn about wireless technology and radio science through Amateur Radio

6. Provide an opportunity for Amateur Radio experimentation and evaluation of new technologies.

OUR PHILOSOPHY

Our philosophy is built around three core values:

(1) Innovation

To help developing nations meet the technological demands of the 21st century, providing an innovative way to foster the skills necessary to bring about the necessary changes. We use multidisciplinary STEM learning tools such as rocket kits, aircraft kits and other hands-on tools to provide students with real-world experiences that expose them to technical subjects and creative problem solving.

(2) International Cooperation

People and cultures around the world can make valuable contributions to the lives of all people. When individuals from differing cultural and geographical backgrounds meet and cooperate toward common goals, they create a powerful synergy. An international exchange of diverse knowledge, skills, and cultures can cause world-changing things to happen. This exchange starts with the more advanced nations sharing their technology and skills with the developing world. The outcome is a world where all nations have a chance to prosper, benefitting both the haves and the have-nots by reducing dependence.

(3) Equity and Empowerment in Science, Technology, Engineering, and Mathematics (STEM)

We seek gender equality in education for females across all parts of society in every part of Nigeria and the world at large. We believe that girls have a right not only to basic education but to advanced education in STEM. To correct this all-too-common inequality, we believe we must provide resources and programs that enable, encourage, and support women's educational opportunities in STEM and that integrate young women and young men into a mutually supportive educational environment. For these reasons, we give preference to young women in our STEM Workshops, conferences, seminars and training.

OUR VISION

Aerospace Palace Academy, Nigeria STEM Innovation is a world where intellectual, entrepreneurial, and technical talent can be fostered for the prosperity of all. This prosperity is vital to developing nations' future economic growth and depends on education systems that support economic development while helping all students to become innovators and inventors, self-reliant and logical thinkers, and technologically proficient problem solvers.

Our Core Values

- Hope
- Persistence
- Passion
- Innovation
- Leadership
- Integrity
- Equality

Each of our core values defines who we are and how we work towards our mission, goal and vision.

(1) Hope: We believe that cultural stigmas, religious restrictions, and oppressive laws prevent girls and boys in many developing countries from obtaining the education they deserve. By sharing inspiring hope in these students, we give them hope to achieve their dreams.

(2) Passion: Our teachers and educators inspire students and act as their role models: the best solution to students' education crisis. Let's fuel a passion for learning in all the young women and men around the world and see the real change.

(3) Persistence: We support young people willing to work hard to achieve their dreams, willing to spend the extra time and energy to succeed and willing to risk the consequences of change. *Persistence* is the key to the continued progress of women in society.

(4) Integrity: We demonstrate *integrity* toward our commitment and vision by focusing all of our efforts on creating innovative solutions and projects that address two primary concerns: economic development and gender equality.

(5) Leadership: We believe it is important to encourage students in developing nations to take *leadership roles* as a part of their educational journey if they are to become *leaders* in their communities and in their chosen professions.

(6) Innovation: We use *innovative* multidisciplinary STEM learning tools such as STEM K-12 resources, the rocket kits, aircraft kits, Raspberry Pi kits, and others to

foster student interest in STEM fields.

(7) Equality: We believe that empowering women through STEM education can *abolish gender inequality*. Our vision is of a world where women receive the same educational access and opportunities as men.

THE PROBLEM STATEMENT

Brutal Facts

Breaking the Cycle of Poverty and Improving the Nation's Economy

Around the globe, particularly in developing countries, women lack opportunities to obtain the education that they so desperately need and deserve. Cultural stigmas, religious restrictions, and oppressive laws keep women trapped in desperate poverty and ignorance, unable to obtain the education that might give them hope. History has shown time and again that educating girls provides benefits to the economies of nations. In many cases, changes in cultural attitudes and the legal status of women have resulted in economic benefits that break the cycle of centuries of poverty in just a single generation. Like the proverbial rising tide, the flood of newly educated citizens, inevitably lifts all boats. Lack of funds for education, access to information resources, gender discrimination, family pressure and cultural biases against women pursuing careers in STEM fields must be addressed if this inequity is to be addressed successfully.

STEM Education is Critical to Solving Problems in the Developing World

Lack of Opportunity for STEM Education in Developing Countries; A Dearth of Infrastructures and Development

To grow the industrial and technological sectors of an economy, you need skilled, trained workers. UNESCO, the United Nations Educational, Scientific, and Cultural Organization, has stated that "Capacity in science and technology is a key element in economic and social development. Promoting science education at all educational levels, and scientific literacy in society in general, is a fundamental building block to building a country's capacity in science and technology." We are dedicated to contributing to scientific and technological development in developing nations.

OUR APPROACH AT AEROSPACE PALACE ACADEMY, NIGERIA

Aerospace Palace Academy, Nigeria is an innovative organization dedicated to promoting increased participation in post-secondary Science, Technology, Engineering and Mathematics (STEM) education in developing nations and underserved group in developed nations around the world. Our education programs are a direct response to the reality that our future will be built on innovation and invention and creative problem-solving. To meet this need, we collaborate with schools, governments, organizations, and philanthropists to accomplish its mission. We are committed to nurturing world-class student STEM projects that can contribute to and support technological innovation in developing nations. The STEM fields are critical to any national economy seeking to grow in a 21st century global economy.

Aerospace Palace Academy, Nigeria was founded by Ogunbiyi Abiodun; a young man who understands firsthand how education can positively impact one's life and how education in STEM can bring about an immense change. Our organization is founded on the fundamental belief that giving a high-quality STEM education to young people in developing nations will bring about immense and powerful changes for the better. We believe that students in developing nations with access to STEM education will be able to obtain meaningful employment and lifelong self-sufficiency as well as foster development in their home countries.

STEM to Spur Infrastructure and Industrialization in Developing Countries:

The fields of Science, Technology, Engineering, and Mathematics (STEM) are critical to any nation seeking to grow in the 21st century global economy. A robust economy will require citizens thoroughly equipped to compete in the science and technology fields. STEM-focused education responds to the reality that a nation's future will be built its capacity for innovation and invention.

Our Response to the Need

The Aerospace Palace Academy's STEM Innovation is determined to improve scientific and technological educational opportunities for students in Nigeria and other developing nations. By creating innovative solutions that help women and youths overcome barriers to education, we believe that we can slowly begin to turn the tide that has for so long held back talented, energetic, and intelligent young people who can be incredible assets to their communities, their nations, and their world.

Gaining Access to STEM Education Opportunities

The lack of access to science, technology, engineering, and math (STEM) related opportunities affects technological and industrializing a nation: as the world depends more on science and technology, the need for STEM education for all students will be critical in the coming decades. STEM disciplines are critical to any nation seeking to grow in the 21st century global economy. A robust economy requires citizens to be thoroughly equipped to compete in science and technology. STEM-focused education responds to the reality that a nation's future will be built on its capacity for innovation and invention. Engaging education experiences in science and technology incorporate and integrate multiple disciplines, including reading, writing, math, critical thinking, team-building, and technical problem-solving. STEM projects that emphasize hands-on activities with technology integrate learning in ways that connect disciplines and relate them to each other. This effort is important because it provides a way for developing nations to spur meaningful development through STEM projects. It will encourage governments to take the steps necessary for industrialization and development, opening up endless opportunities for their young people. Our approach is a direct response to the realization that our future will be built on capacity for innovation and invention and creating problem solving.

OUR RADIO STATION (Aerospace FM Nigeria): The radio station was created out of our need to reach more audience across the world with our STEM education.

The radio was designed in order to:

(i) Inspire an interest in science, technology, engineering and math (STEM) subjects and in STEM careers among young people;

(ii) Provide an educational opportunity for students, teachers and the general public to learn about space exploration, space technologies and satellite communications;

(iii) Provide an educational opportunity for students, teachers and the general public to learn about wireless technology and radio science through Amateur Radio

(iv) Provide an opportunity for Amateur Radio experimentation and evaluation of new technologies.

(v) Provide a contingency communications system for NASA and the ISS crew.

(vi) Provide crew with another means to directly interact with a larger community outside the ISS, including friends and family.

You can listen to us via our online radio link http://aerospacefmnigeria.playtheradio.com

Radio App on Google Play Store: https://play.google.com/store/apps/details?id=com.wAerospaceFMNIgeria_6478572

"Aerospace Palace Academy, Nigeria is where Innovation happens. The mobile App and the rocket and aircraft kits serve as the "vehicle" to reinforce Science, Technology, Engineering and Mathematics concepts as well as to teach valuable life skills such as teamwork, leadership, and innovative thinking."

Mobile Number
+2348052456889

COURSE DETAILS

Course profiles
STEM Education and Aerospace Micro-Lessons

REPORTS

Browser sessions

LOGIN ACTIVITY

First access to site
Wednesday, 6 June 2018, 4:31 PM (1 day 21 hours)

Last access to site
Friday, 8 June 2018, 1:34 PM (3 secs)