



SUMMER OF STEM VIRTUAL CAMP

by e-Biome

For Ages 9 - 17

TABLE OF CONTENTS

- ❑ OVERVIEW OF E-BIOME
- ❑ SUMMER OF STEM PROGRAMME
- ❑ OBJECTIVES
- ❑ WEEK PLANS
- ❑ REGISTRATION

E-BIOME

e-Biome is a key developer in the blue economy with a vested interest in using Science, Technology, Engineering and Mathematics (STEM) to drive development in areas of Marine Biotechnological Research and Ecosystem Management.

Through consulting with experienced scientists and global investors, e-Biome bridges the gap between science and business. e-Biome provides services such as project management, proposal development and business development services to small to medium enterprises in the field of science and technology.



SUMMER OF STEM VIRTUAL CAMP

The Summer of STEM Virtual Camp edition was created to build awareness around STEM, and use it a key tool to developing critical thinking abilities in students. Science is often viewed as an abstract area for students and hence, this focus is very critical as science is one of the most important subjects and to help students overcome the struggle to make a connection between what is taught and its application to real life scenarios, is paramount to a child's success.

CAMP WILL START ON JULY 20 AND END ON AUGUST 14. STUDENTS WILL RECEIVE A CERTIFICATE OF PARTICIPATION AMONG OTHER MERIT-BASED AWARDS FOR THEIR EFFORT.

OBJECTIVES

This camp will help students prepare for a career in the STEM field There will be an heightened **awareness** and **sensitivity** to the environment and its challenges.

- ❖ **Increase in Knowledge** and **understanding** of the environment and its challenges.
- ❖ Solid foundation developed in STEM

- ❖ **Develop attitudes** of concern for the environment and **motivation** to improve or maintain environmental quality
- ❖ **Improve skills** to identify and help resolve environmental challenges
- ❖ **Increase participation** in activities that will lead to the resolution of environmental challenges

AREAS OF FOCUS

ECO-DISCOVERY

Introducing students to various ecosystems that exist and key characteristics of each. Virtual labs to take students on a journey exploring biodiversity on land and underwater.



MathDoc

Creatively engaging students in the world of Mathematics. From the basic to advanced level, students will be prepared to conquer math and engineering principles.



AREAS OF FOCUS

TechWiz

From coding to building technology, students will experience high-level exposure to the nuisances of technology



OTHER AREAS

- Zoology
- Botany
- Electronics/Robotics
- Biochemistry
- Microbiology
- Environmental Sustainability

Other Key Activities of the Camp include:
-STEM Career Symposium
-Vision Boarding Workshops
-Virtual Labs offering practical exposure

SUMMER OF STEM
PRROGRAMME

WEEK 1

We offer activities specific to two age groups:

- 9-12 (Wetlands)
- 13-17 (Tropical Forests)

AGES 9-12

- ❖ Life Cycle
- ❖ Food Pyramid
- ❖ Measurements
- ❖ Long Division
- ❖ Introduction to robotics
- ❖ Introduction to Microsoft Word and Powerpoint

AGES 13-17

- ❖ Scientific Sampling Methods
- ❖ Ecosystems
- ❖ Biochemistry and living things
- ❖ Algebra part 1
- ❖ Making a robot: Virtual Workshop
- ❖ Mastering PowerPoint Designs

WEEK 2

AGES 9-12

- ❖ Exploring Nature; Ecosystems
- ❖ Reuse, Reduce, Recycle
- ❖ Animals in the Ocean
- ❖ Integers and Algebra
- ❖ Building an App
- ❖ Presentation Skills

AGES 13-17

- ❖ Aseptic Techniques in Labs
- ❖ Global Environmental Issues
- ❖ Plastics and Marine Life
- ❖ Eutrophication and Marine Life
- ❖ Algebra part 2
- ❖ Building an App
- ❖ Presentation Skills

WEEK 3

AGES 9-12

- ❖ Metabolism
- ❖ Wildlife and Pollution
- ❖ Habitats and Extinction
- ❖ Fractions- Add and Subtract
- ❖ Introduction to coding
- ❖ Vision Boarding

AGES 13-17

- ❖ Abiotic factors and Zonation
- ❖ Water Chemistry
- ❖ Microorganisms and Medicine
- ❖ Consumer Arithmetic
- ❖ Coding and Machine Language
- ❖ Vision Boarding

WEEK 4

AGES 9-12

- ❖ Natural Resources
- ❖ Climate Change
- ❖ Fractions- Divide and Multiply
- ❖ Virtual STEM Career Symposium

AGES 13-17

- ❖ Natural Resources
- ❖ Climate change
- ❖ Fractions- Advanced Level
- ❖ Virtual STEM Career Symposium

REGISTRATION

To register your child, fill out the form below:

<https://forms.gle/V2ohK1tF3ZGZAUyG6>

The cost of the camp is \$6,000 (JMD)/ \$45 (USD).

2020 Camp dates: July 20- August 14

For more information visit: www.e-biome.com

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