

Developing A Novel Space Camp Model To Inspire The Next Generation Of Space Professionals

30th Workshop On Space Technology For Socio-economic Benefits

Session 13: "Education on space technology and applications at a level below university

Presenter: Daniela Mera Date: October 1st, 2023





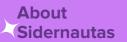


Space, Science and Technology, Summer Camp

Sidernautas → About Sidernautas

The first space and STEAM summer camp in Ecuador and LATAM

Sidernautas is a pioneering STEM and space-focused summer camp created as part of the education tier at the Sideralis Foundation which seeks to promote space education, technology and science as axes for development in the Latin American continent.



Education for Education

Empowering Customization

Non-Profit Model Implementation Stardards

Cultural Integration The Foundatio Sidernautas → **About Sidernautas**Session 13

Age10 to 15 years (suggested)

- Duration3 weeks
- Number of students
 15 to 25 students per edition
- Structure
 On-site classes from Mon-Thu
 and field trips every Friday





SPACE AND UNIVERSE CLASS

Space Odyssey Expedition



ROBOTICS CLASS

Robotics Revolution Quest



CODING CLASS

CodeCraft Adventures



TERRESTRIAL ECOSYSTEM CLASS

Earth Guardians Quest



MENTAL HEALTH CLASS

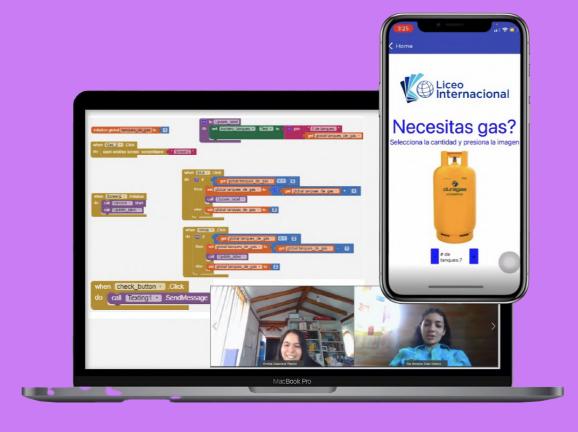
Mindful Universe Journey



FIELD TRIPS

Exploratory Outings

Sidernautas → **About Sidernautas** Session 13



- Collaborative pedagogical approach rooted in modern education principles and Scout movement values.
- Curriculum co-created by educators and experts, passionate STEM professionals, local space industry engineers, and global tech company scientists.
- Curriculum succesfully tested with middle school students from a local high school.
- Future-ready career and human skills.

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Sidernautas → About Sidernautas

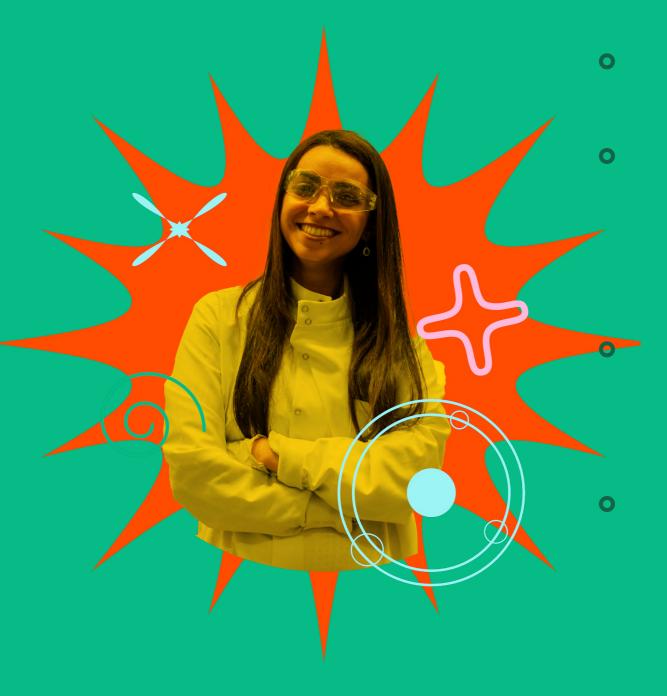
Sidernautas was envisioned as more than a summer camp, it seeks to be a movement that fosters collaboration, knowledge exchange, and the growth of the space community in developing regions.

Sidernautas → Education for Education

Education for Education

Replication & Collaborative Partnerships

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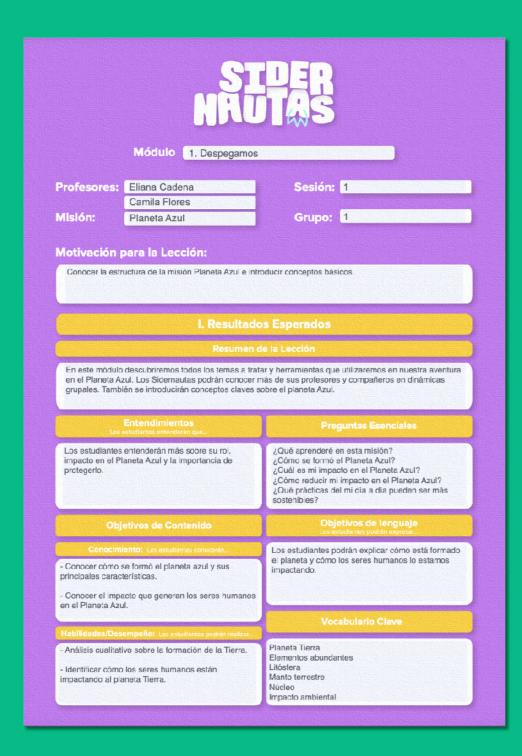
Vision for Replication: Designed with a vision to be shared beyond borders

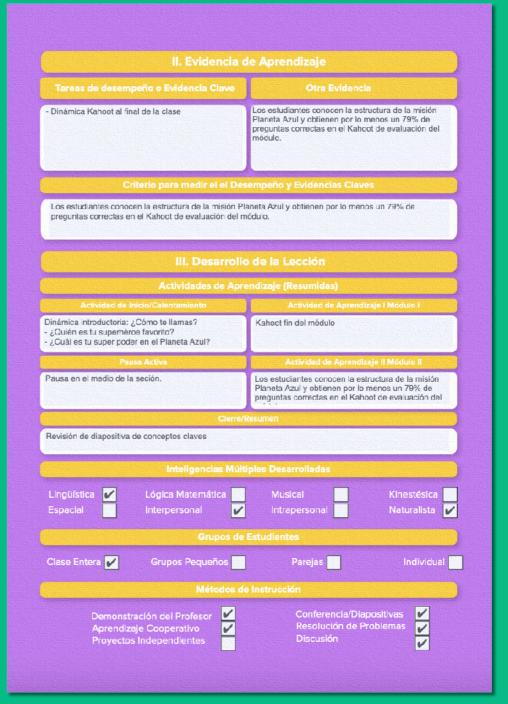
Packaged Assets: Program assets are packaged and readily available for sharing with those who seek to implement.

Comprehensive Lesson Plans: Each module comes with detailed, descriptive lesson plans.

Modern Educational Tools: Modern and interactive educational tools to enhance accessibility and engagement (e.g. Genially)

Sidernautas → Education for Education





Session 13

Sidernautas → Education for Education

- Sidernautas thrives on partnerships that transcend geographical limits. An outstanding example is our collaboration with Guatemala, where knowledge flows both ways.
- We're not stopping there discussions are underway to adapt Sidernautas to Arabic and Romanian audiences, showcasing its potential to bridge cultures and languages for a united space education
- These partnerships are more than transactions; they're bridges that connect aspiring space professionals across the globe.



SPACE AND UNIVERSE CLASS

Space Odyssey Expedition



TERRESTRIAL ECOSYSTEM CLASS

Earth Guardians Quest



2023 ADDITION



MICROBIOLOGY CLASS

Microcosmic Mysteries

Mindful Universe Journey



CODING CLASS

CodeCraft Adventures



FIELD TRIPS

Exploratory Outings

Empowering Customization



- Mix and match: Tailor
 Sidernautas' modules to suit
 your resources and
 expertise.
- A flexible approach ensuring a personalized and adaptable learning experience.
- Empower educators to curate a camp that resonates with their students' interests.

Non-profit Model

Sidernautas → Non-profit Model

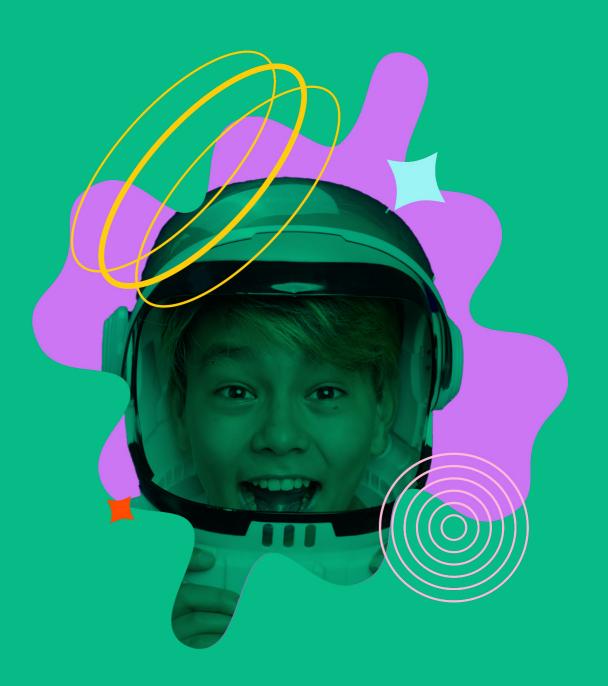
- Reinvesting funds to enrich the program, ensuring continuous innovation.
- Admin fee contribution enhances the ecosystem, promoting sustainable growth.
- Cycle of growth that benefits everyone involved – teachers, students, and the educational ecosystem at large.

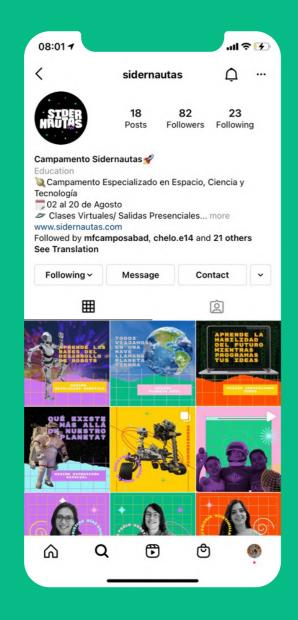


Camp Implementation Standards

Sidernautas → Camp Implementation

- Establishment of Implementation Standards
- Ensuring Consistency and Quality through Branding and Marketing Materials
- Brand Manuals in order to highlighting the Importance of Adhering to Standards









Cultural Integration and Flexibility



- o Translation: At Sidernautas, we understand that culture is the baseline of understanding. Our commitment starts with translating the entire program to align with local languages and cultures.
- Adaptation: Examples, exploratory outings, and activities will be thoughtfully adapted to reflect the unique context and cultural nuances of the host country.
- celebrating Diversity: We believe in celebrating diversity as an opportunity for mutual learning, sharing, and growth in our collective space education journey.

Education for Education

Empowering Customization

Non-Profit Model

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The Foundation

About Sideralis





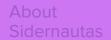






Sidernautas → **About Sideralis** Session 13

Since 2019, Sideralis Foundation has been inspiring a passion for space exploration in Latin America. We're dedicated to promoting space through education and acceleration programs for new participants in the field. Our mission is to boost technical, scientific, and cultural development, with a special focus on space.



Education for Education

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Cultural ntegration The Foundation

