PHOENIX SPACE

نماء أكاديمي
Nama'a Academy

AIRBUS FOUNDATION

IMPACT REPORT

The Phoenix Space High Altitude Balloon Camp
Nama'a Academy– Airbus Foundation
Kilis, Turkey
January 2024

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PARTNER AND COURSE INFORMATION

High Altitude Balloon camp is a unique two-part program, combining theoretical instruction and experimental activities through the cutting edge of space science.

This foundational program is designed to teach some of the most important concepts and skills in the subjects of mathematics, science and programming/computer science. It aims to teach the essential elements that should see the biggest return in terms of an increase in mathematical ability and the development of an inquiring and scientific mind.

The Camp was run in collaboration with Nama'a Academy in Kilis, Turkey and Phoenix Space's Head Teacher, Nazeer Sabbagh, and funded by The Airbus Foundation.


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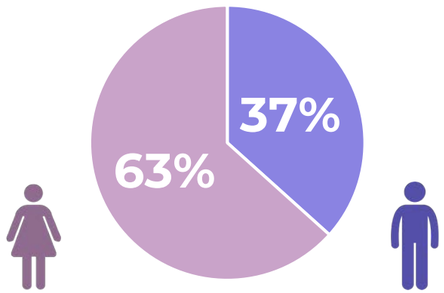
COHORT STUDENT DATA

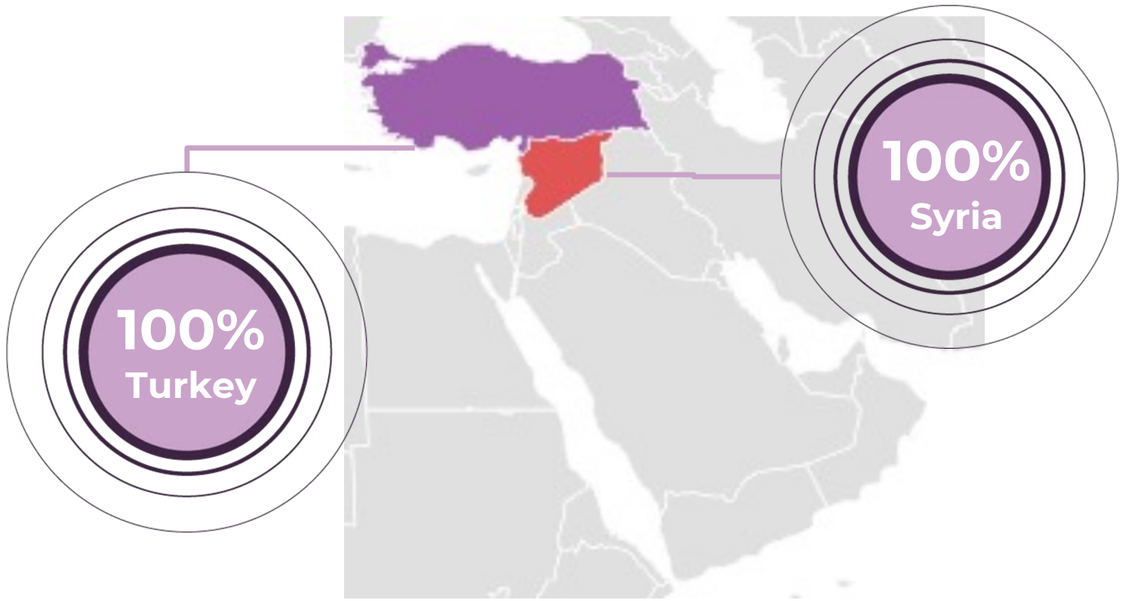
Student Demographics

60 students

Gender Distribution



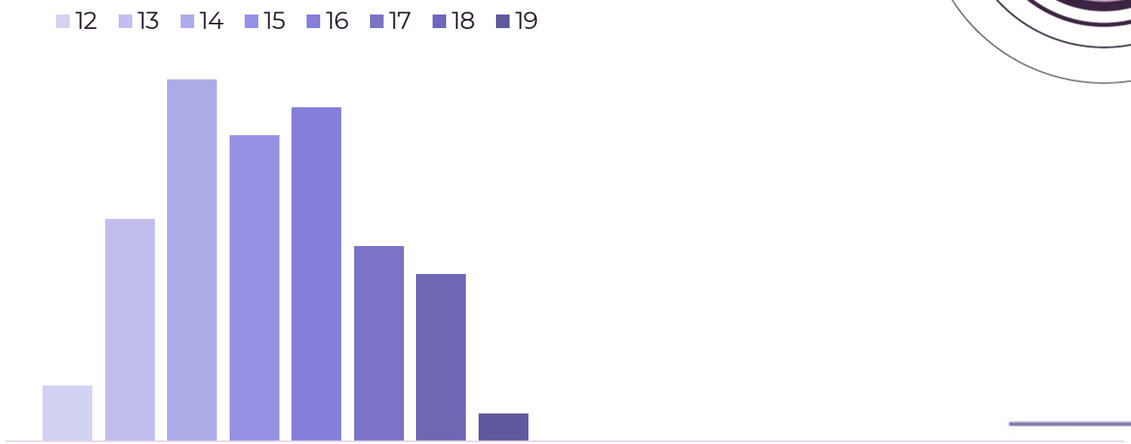
Countries of origin and residence



Country of residence

Country of origin

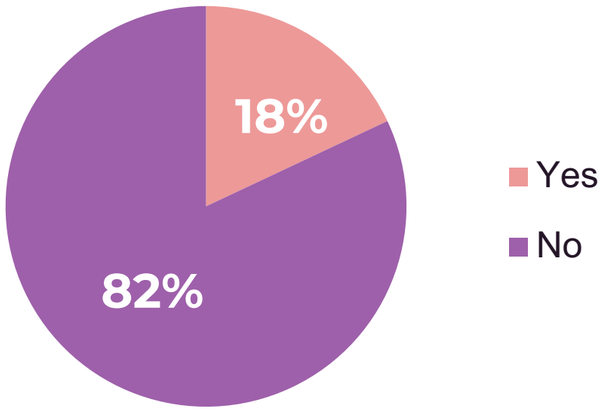
Students' Age Ranges



COHORT STUDENT DATA

Student data

Do You Have Previous Gaps In Your Learning?

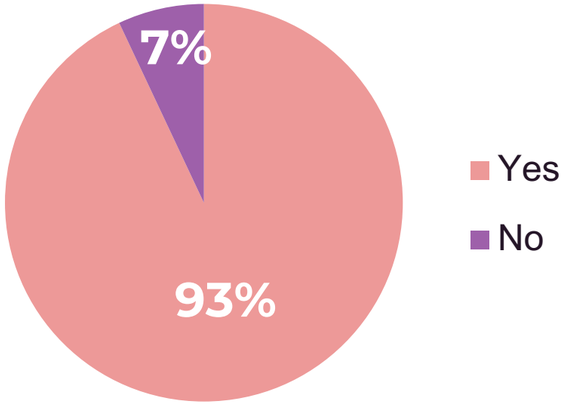


15.2

Average age of participants

Aimed at 13–17-year-old students

Is it likely you'll apply to university after completion of school?



Course Details

Course Duration

The Camp has two parts:

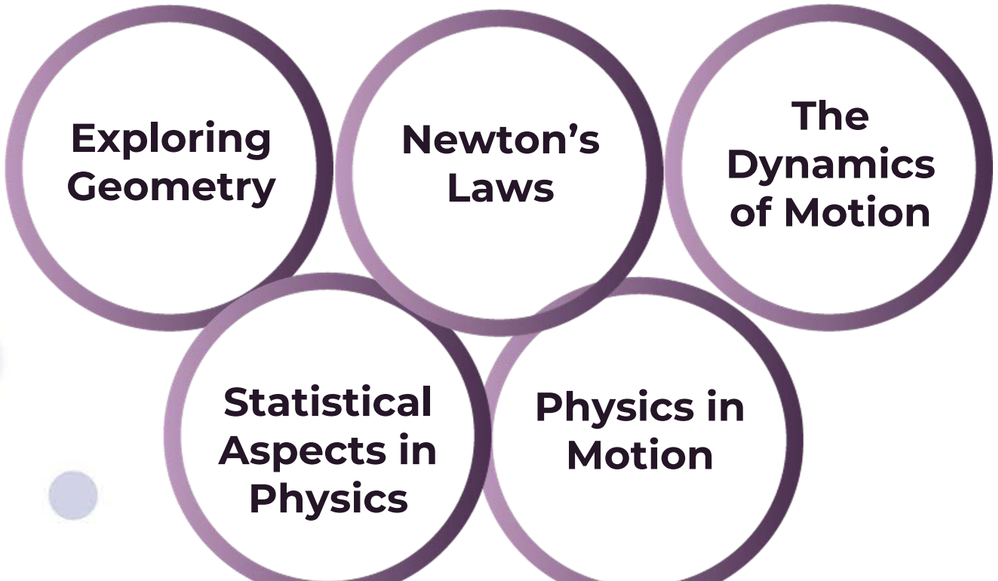
Part 1

Online STEM theory lessons: The theoretical part of the program is intended to instil a scientific mindset and teach problem-solving methodologies through evidence-based thinking, delivering the fundamental STEM concepts in an engaging, accessible and culturally sensitive manner.

Part 2

In-person Balloon Camp: An intensive practical camp enables students to put their theoretical knowledge to the test by carrying out investigations and experiments, exploring applications of thermodynamics, mechanics and geometry. The activities are a mix of solo and group activities designed to enhance collaborative skills and knowledge sharing through a concluding presentation.

Categories of STEM Theory



Balloon Camp Days

Day 1: Introducing the Mission and Heat
Day 2: Heat flow, insulators and radiators
Day 3: Motion, atmosphere and rockets
Day 4: The shape of the Earth and locating the payload
Day 5: Team and individual presentations

Balloon Camp Activities

Investigating forces on flying objects

Calculating the amount of helium needed to lift the circuit

The circuit

Locating the circuit

Protecting the circuit

Presentations


TOSHIBA

STUDENT IMPACT

Soft-skill development

% of those who scored “agree” or ”strongly agree” in survey

94%

Of students were more motivated to learn about STEM subjects following the Balloon Camp

Made me believe I can figure out anything if I try hard enough — 90%

Made me feel more comfortable sharing my opinions with my peers — 90%

Taught me how to better find solutions to problems — 83%

87% — Made me more confident analysing scientific data and making conclusions

Made me think about how to apply what I’m learning in practical ways in my life — 83%

STUDENT IMPACT

What the students had to say...

What I liked the most is that we applied the theories we learned in a fun and exciting way.

Cemile, F, 13

The course made more enthusiastic about STEM and provided me the confidence to ask questions of my teacher without hesitation.

Lemis, F, 15

I liked the diversity of the course the most. From theory to practice, we performed experiments with rockets, made circuits and wrote code!

Zulfe, F, 16

Because of the interruption in my learning, I usually feel that I'm behind my peers, but now I feel that I can easily catch up if I try hard enough.

Muhib, M, 16

STUDENT IMPACT

What Enas shared...

Enas
Student, F, 18

I loved the practical lessons the most. In school, we take lessons, but we do not apply them practically and sometimes we get low scores. I think if every lesson had a practical element, I would perform better.

Additionally, as a high school student, this course made me think about fields different to the field that I was going to study in the future, and it increased my courage and enthusiasm to study a specialty closer to space science or technology.

I hope that courses like this will continue to be made available because there are thousands of students who need them.

Parent feedback

The parents of **Muhammed, M, 15**

May God bless you. It was an enjoyable course for our children, especially my son. He had a fear of scientific subjects, especially physics. At first he was hesitant to attend the practical lessons because he thought it'd be long and boring hours but after the first day he attended, he was waiting for the second day and telling me that he did not feel time at all. The teacher was wonderful in his method and he made our children like the topics that they used to fear.

The parents of **Ruha, F, 15**

Based on what Raha has told me, she benefited from and loved the ideas that the course applied in practice. In addition, the course helped her to make a decision within her field of study as she wasn't able to choose between literature and science. Her love for physics and her attendance in the course made her decide to study science and gave her a love of exploration and patience to find the appropriate solutions to any problems.

The parents of **Omar, M, 14, Ahmad, M, 16**

The course was distinctive and full of new ideas and incentives for our children to learn and explore. In my opinion, despite the short duration, it affected their perception of scientific subjects as difficult subjects for my sons. Rather, they have begun to view them as subjects that constitute a challenge to their abilities, which motivates them to explore ways of solving by working together as a team of brothers and by developing their critical thinking skills Thank you very much and I look forward to other courses and activities of this kind.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