

Space education: a way to motivate students to study STEM subjects

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Current situation in Estonian education based on the results of the PISA 2022 survey

- Estonian children's knowledge (in maths, reading and science) is at the top in the world and at the absolute top in Europe.
- According to school leaders, the lack of teachers in general and of qualified teachers in schools has increased.
- Estonia ranks first in terms of teachers' freedom to tailor the school curriculum.





Teacher training



Creation/translation of teaching materials

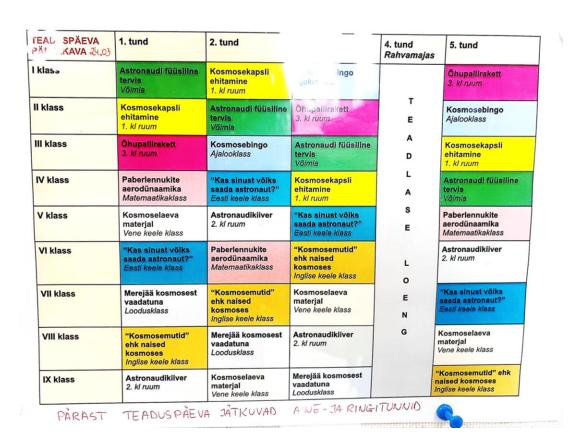


ESA challenges for students

Teacher training:

United by Space - school team building training

- involve all teachers in the school;
- we work with the school as a team;
- introducing challenges that integrate subjects;
- creating a motivating environment for collaboration within the school;
- teachers prepare a plan for a space day/week as part of the training.



Researchers in schools ...

as part of teacher training



inspiring students





Workshop: Comet Interceptor Mission

Career Day – a career ladder leads to space

- Practical workshops 38 workshops in parallel
- Workshop duration 1,5-2 hours
- Up to 10 students per group
- Workshops run by professionals in their field (academia and industry)

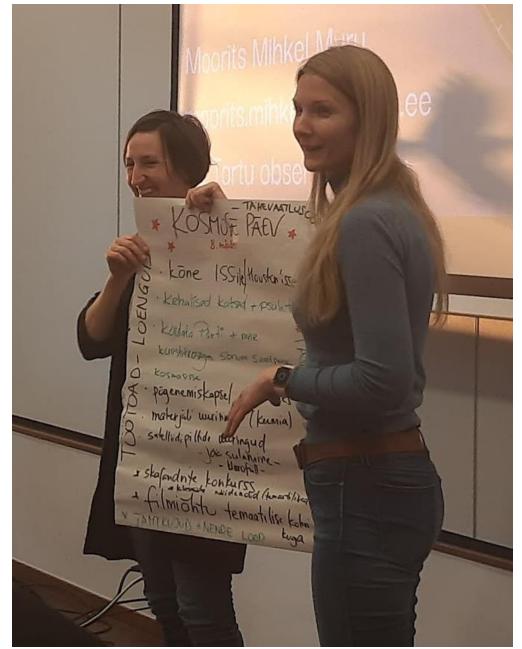
Science Task Force



- 15 students
- 2,5 weeks in summer
- under the supervision of researchers
- examples of work titles:
 - Investigating simulations of the 4MOST Observation Project
 - Estimation of chemical elements in star HD21997

inspiring teacher training leads ...







Broadening career choices ...



