



**S T E M**



**STREM**



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# **Nº6 STREM group**



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STREM



# Exhibitions for students on STEM education





## **The purpose of the exhibition:**

Is to popularize scientific and technical creativity and engineering professions among pupils and students.

## **The objectives of the exhibition:**

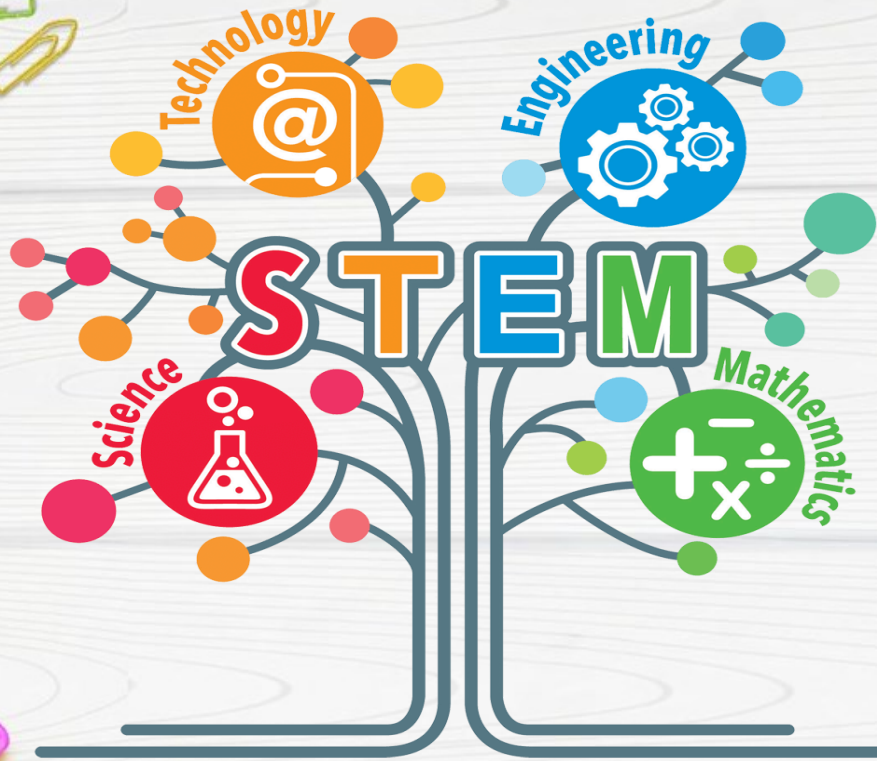
- 1) to demonstrate the prospects of stem-education, robotics.
- 2) Get acquainted with the achievements of Kazakh students at international tournaments in robotics.



STREM



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1

S – science | естественные науки

2

T – technology |

ТЕХНОЛОГИИ

R- ROBOTICS

робототехника

3

E – engineering | инженерное

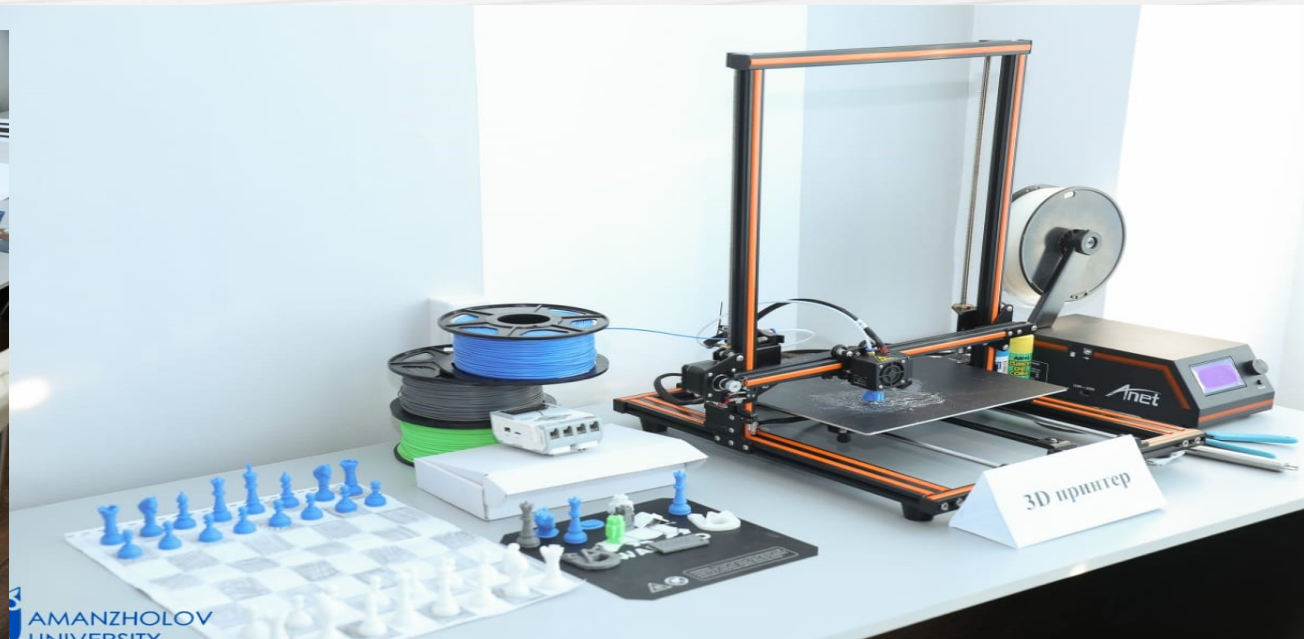
ИСКУССТВО

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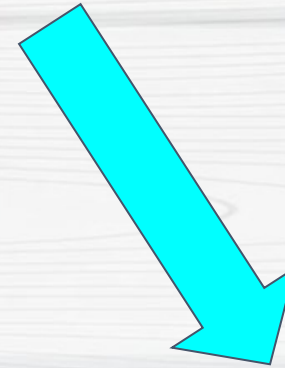
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M – mathematic | математика

# Stem laboratories

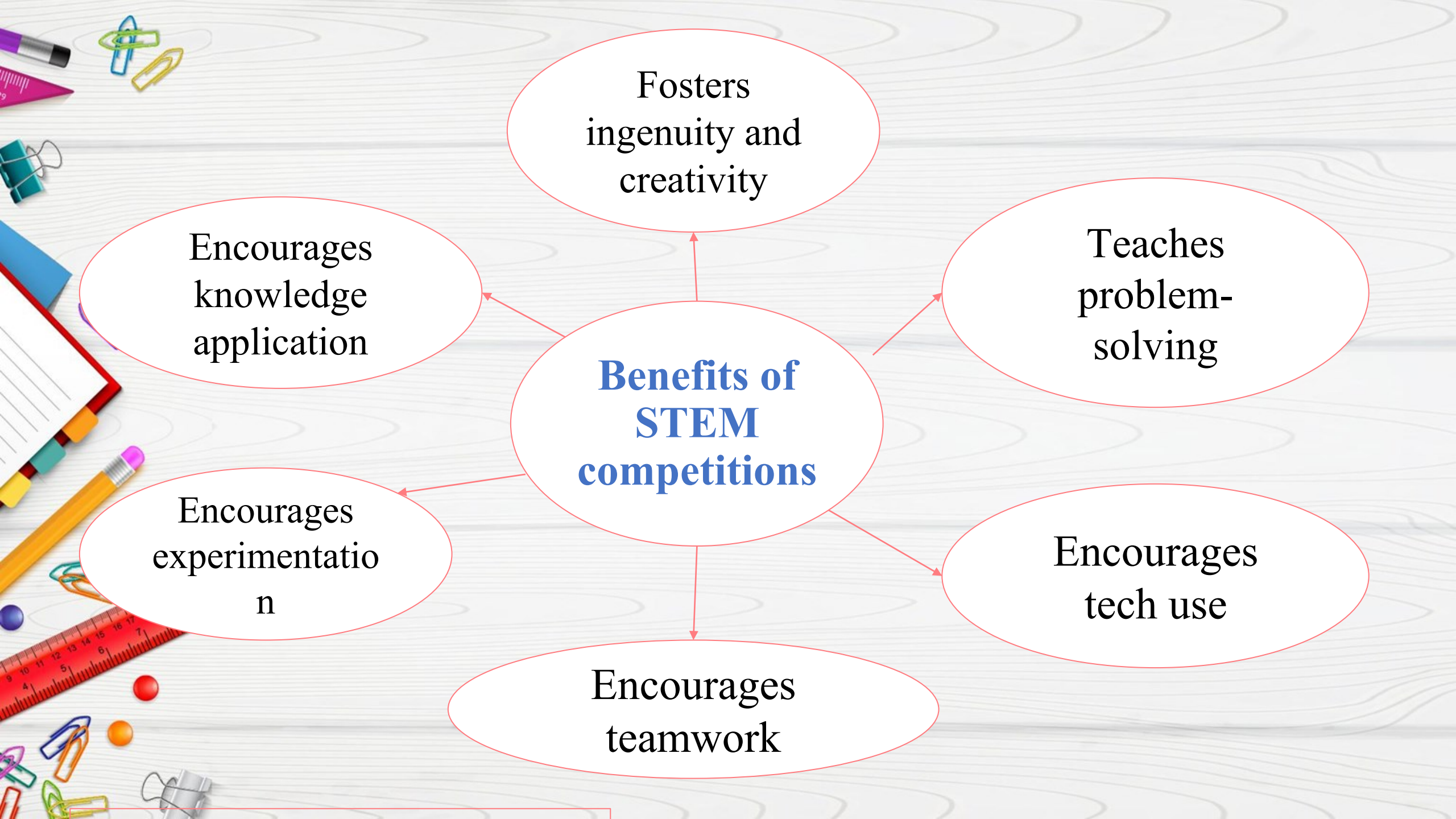


# What is a STEM competition?



STEM allow competitions for individual or student teams to solve a specific challenge or problem through science, technology, engineering, or mathematics.

Challenges are rooted in real-world issues, encouraging participants to use creativity and critical thinking in order to come up with innovative solutions.



Fosters  
ingenuity and  
creativity

Encourages  
knowledge  
application

Teaches  
problem-  
solving

**Benefits of  
STEM  
competitions**

Encourages  
experimentatio  
n

Encourages  
tech use

Encourages  
teamwork



# **STEM EDUCATION provides a huge range of services and solutions for secondary schools.**

- Creation of STEM laboratories;

- Educational furniture;

- Digital laboratory Releon;

- Creation of a STEM training program;

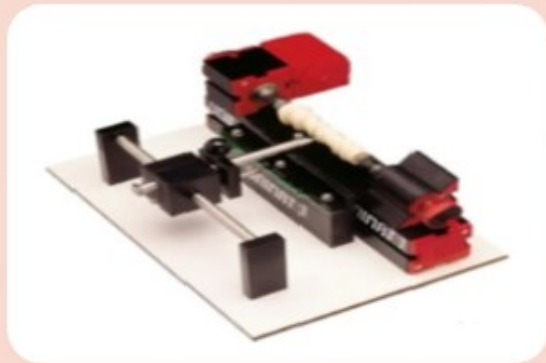
- Organization of subject cabinets: physics, chemistry, biology, robotics, computer science, mathematics, geography;

- Marker boards and flipcharts. Interactive equipment and projectors;

- Consulting services for the development of STEM education;



# WE OFFER



UNIMAT machines are ideal for work in school workshops when studying at the initial level, as well as professional modelers who place the highest demands on the quality of turning and milling.



3D printer Picaso 3D Designer. The devices allow you to implement three-dimensional models created in the lessons of design, design and computer science, to create tutorials, and also to produce components for devices developed in the classroom on Technology, Robotics or Mechatronics.



3D Scanner 3D Systems Sense Next Gen. 3D scanners will be a great helper at work, home and school. Devices allow you to quickly scan and create lines of products such as sports goods, packaging, and more, using scanned images and refining them in the editor.



STEM education offers a wide range of sets for educational robotics: LEGO Mindstorms, Arduino, MakeBlock.



# **Achievements of Kazakh students in international competitions in STEM**

# Robot-teacher, 3rd place WRO 2019

- a robot teacher that teaches children different types of activities and gives them motivation to develop their skills.





prize place, Almaty schoolchildren presented at the competition 2 robotic projects to improve their hometown. Children are concerned about solving two of the most pressing problems of the southern capital - air pollution and the lack of environmentally friendly ways of generating energy. The guys created a model of the city from Lego, in which they implemented the ideas of vertical gardening, the installation of solar and wind generators, and caring for people with disabilities (a transformer ramp).

- In 2016, FMN Taldykorgan won the Creativity Award at the WRO World Olympiad in New Delhi

In 2017 FMN of Almaty took 1st and 2nd places in two VEX EDR nominations at the 9th All-Russian Robotic Festival "RoboFest" in Moscow)





Thank you for your  
attention!!!