



Назарбаев
Зияткерлік
мектептері



Химия-биология
бағыты
Шымкент қаласы

NIS



2013

**НАЗАРБАЕВ
ЗИЯТКЕРЛІК
МЕКТЕБІ**



Назарбаев
Зияткерлік
мектептері



Назарбаев

NAZARBAYEV INTELLECTUAL SCHOOLS

The project of Autonomous Educational Organization “Nazarbayev Intellectual Schools” (henceforth the AEO “Nazarbayev Intellectual Schools”) was launched by the President on 12 March 2008.

The Intellectual Schools are aimed to enhance the intellectual capacity of Kazakhstan through the development and implementation of an innovative, Mathematics and science-orientated, trilingual, model of school system that integrates the best of Kazakhstani traditions, and that meets international standards of best practice.

For more details see
nis.edu.kz



20 located in
14
Intellectual schools regions

NAZARBAYEV INTELLECTUAL SCHOOL OF CHEMISTRY AND BIOLOGY IN SHYMKENT



706
students

Grades

7 to 12

Was officially
opened on the 1st
March 2013



2015

CIS MEMBER



135
Local
teachers

10
International
teachers

55
Support
staff

2013

First graduation

2016



251
Alumni

67
Nazarbayev
University

12
Universities
abroad

A hand holding a red dart, about to throw it at a target with concentric yellow and black rings. The background is blurred, showing a person's hands typing on a laptop.

THE SCHOOL'S GUIDING STATEMENTS

The development of the intellectual and personal potential of each child through the implementation of values and high quality teaching, enabling them to develop as successful citizens, sharing responsibility for themselves, their own country and for the whole world



- Kazakhstani patriotism and civic liability
- Respect
- Cooperation
- Transparency
- Work and creativity
- Life-long learning

The formation of creative, globally thinking and healthy citizens ready to serve the benefit of society and the country



INTERNATIONALSIM AND INTER CULTURALISM



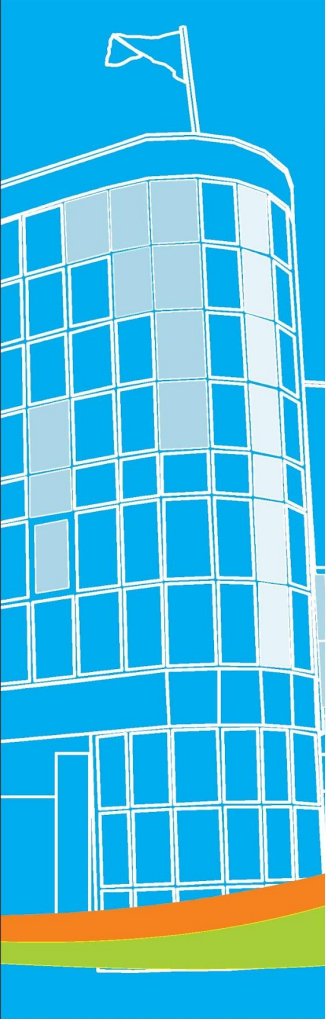
SCHOOL'S DEFINITION OF GLOBAL CITIZENSHIP

We aim to promote an awareness and understanding in the students of the political, scientific and cultural interdependence that exists in our world and the ways in which other people and cultures have an impact on our daily lives.

We plan to equip our students with the necessary skills for competing in a global economy.

WE ACHIEVE THIS THROUGH:

- Teaching multiple languages;
- Teaching subjects through more than one language;
- Hiring teachers from different countries and cultures;
- Organization and participation in global/ international events and activities;
- Study of other countries and cultures;
- Promoting skills in critical thinking using multiple perspectives;
- Teaching tolerance of other cultures
- establishing communication with students from other countries
- Students take examinations that prepare them for admittance to Universities in a number of countries
- Promoting care of the environment and recycling
- Spreading new ideas (TEDx)
- Becoming involved in the organization and participation in the project "Model United Nations".



MANAGEMENT AND LEADERSHIP STRUCTURE

**The umbrella organisation AEO
“Nazarbayev Intellectual School” has
three levels of governing bodies:**

The High Board of Trustees

is the supreme governing body of AEO; the chairperson is the First President of Kazakhstan Nursultan Nazarbayev.

The Board of Trustees

is the governing body of AEO; the chairperson of the High Board of Trustees approves the members of this body.

The Board

is the executive body and is responsible for administrating the day-to-day operations of the AEO

Departments

responsible for coordinating specific areas of educational activity with related responsibilities

Centres

responsible for supporting schools in specific areas of organising and managing the educational institutions

School management

**The school Principal is assisted by seven
Vice Principals**

- ✓ VP for External Affairs
- ✓ VP for Academic Affairs
- ✓ VP for Scientific Methodological Affairs
- ✓ VP for Profile Experimental Work
- ✓ VP for Financial and administrative affairs
- ✓ VP Pastoral Affairs
- ✓ The International Deputy Principal

A Board of Trustees

A School Parents Committee

A Student Council

A Teachers' Council

A Scientific - Methodological Council

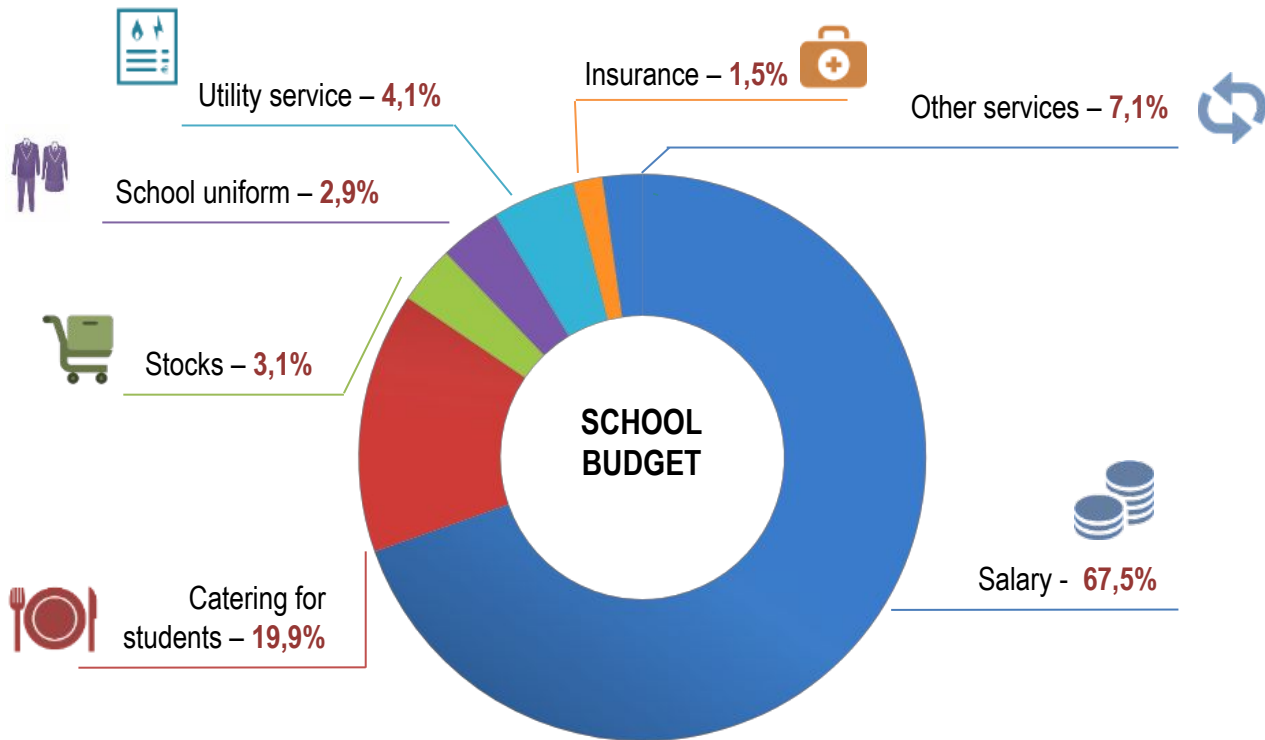
**Middle Management team include Head of
Department**

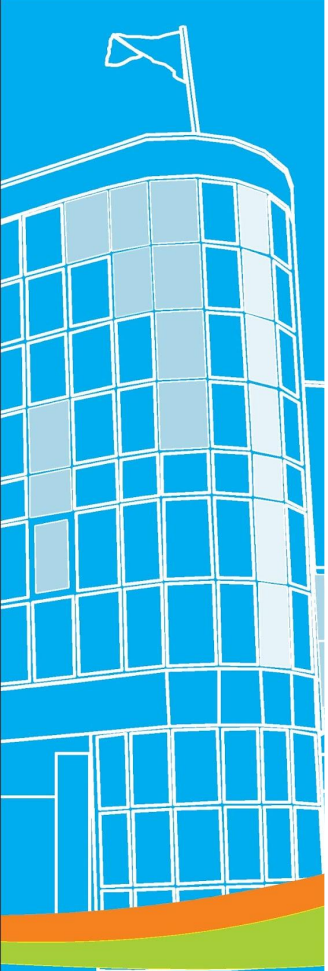
The Administration team



School budget:

- ✓ Formed for 3 years
- ✓ Alleged on the AEO Nazarbayev Intellectual Schools Board of Trustees
- ✓ Adjusted not more than 2 times a year
- ✓ Agreed upon in the MES and the Ministry of Economy and Budget Planning of RK





SCHOOL INFRASTRUCTURE



20859,4 m²

Area of the
school building



Art room



65

Study rooms



Ceramic room



8

Laboratories



Relax room



360

Places in
Assembly Hall



Self-management
room



Robotics
room



TV studio



Recording
Studio



Photo studio



Choreography
zone



Pets' corner



Recycling zone



School
greenhouse



Greenery



Zones for
individual work



Medical block



EBSCO
database



eios database

1:1

Student and
equipment ratio



3D printer

30 000

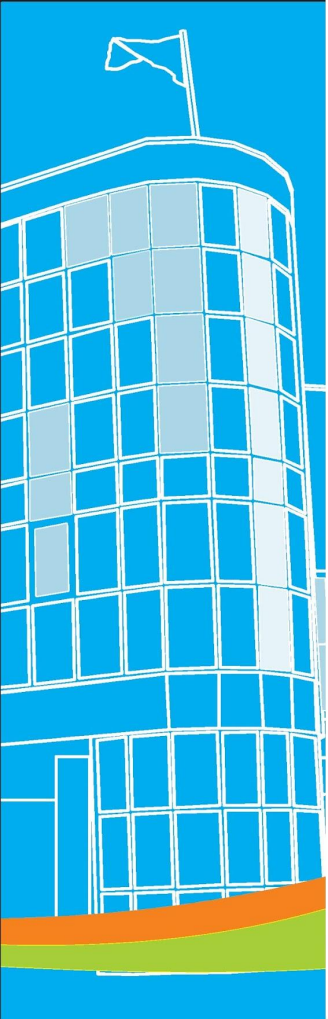
Library fund

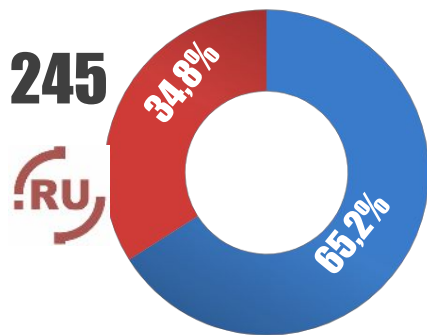
PHYWE
excellence in science

Laboratory equipment
of Physics

PASCO
scientific

Laboratory equipment
of Chemistry and Biology





Student and teacher ratio

4,6 to 1

413

58,7%



459

704

Total amount of students



Number of students in grades

7

90 - 12,9%

8

24,2%

9

112 - 16,1%

10

89 - 12,6%

11

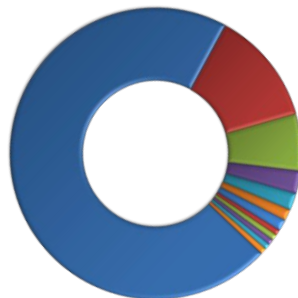
139 - 19,8%

12

96 - 13,6%

291

41,3%



Kazakh – 639 (90,8%)

Uzbek – 30 (4,3%)

Russian – 15 (2,1%)

Tatar – 7 (1%)

Korean – 3 (0,4%)

Turkish – 3 (0,4%)

Azerbaijan – 2 (0,3%)

Jewish – 1 (0,14%)

Kyrgyz – 1 (0,14%)

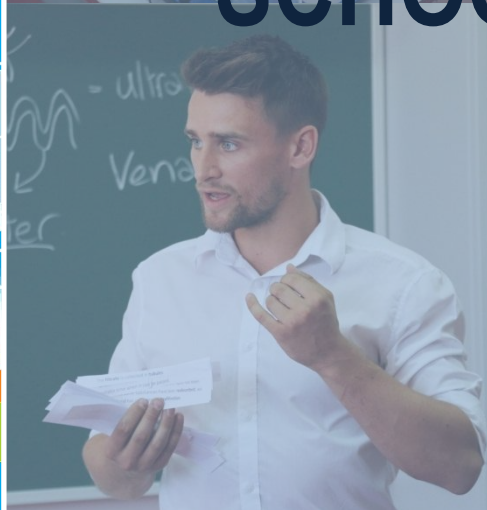
German – 1 (0,14%)

Uyghur – 1 (0,14%)

Pakistani – 1 (0,14%)



SCHOOL STAFF



142 
Local teachers

 **152**
Teaching staff

10 
International teachers

24
Teacher-trainees


63
Teachers

152 

48 
Pedagogic degrees

17
Moderators

17
Experts

25 
Teach in 3 languages

LANGUAGES

88
Teach in 2 languages

22
Level courses

Coaches

152 
Academic degrees

1 PhD

1 Science candidate

45
Master degree


6
Bolashak
alumnis

3
Studied abroad

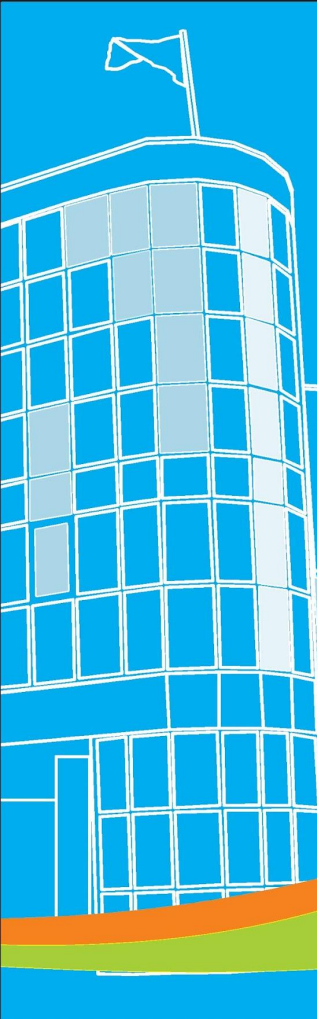
87 
3rd base level

18 

2nd intermediate level

11 
1st high level


296
Total school staff



EDUCATION

NIS PROGRAM – PRIMARY SCHOOL

Taught in first language:



Math



Physics



Chemistry



Biology



Art



Self-knowledge



Physical
Education

EN

English

Taught in Kazakh:

KZ

Kazakh language
and literature



History of
Kazakhstan



Geography



Basics of
law

R

Russian language
and literature

Taught in Russian:



Informatics



World History

NIS PROGRAM – SECONDARY SCHOOL

Taught in first language:



Math



Literature



Physical
Education



Basic military
training

EN

English
language



Global
Perspectives

KZ

Kazakh
language



Kazakhstan in
the Modern
world

RU

Russian
language

Elective subjects in English:



Economics



Chemistry



Biology



Physics



Informatics

KZ

Kazakh as
2nd language



Geography

Elective subjects in Kazakh:

in Russian:

RU

Russian as 2nd
language



ASSESSMENT

Assessment procedures in NIS

Criteria based assessment

- Grades 7-9:**
- Formative assessment
 - Summative assessment after unit (50% of term score)
 - Summative assessment for the term (50% of term score)

- Grades 10-12:**
- Formative assessment (30% of term score)
 - Summative assessment for the term (70% of term score)

External summative assessment in secondary school (grade 10)

External summative assessment in high school (grades 11-12)

Monitoring of students' knowledge

Mathematics

Kazakh language and literature (as a second language)

Russian language and literature (as a second language)

Russian language and literature (as a second language)

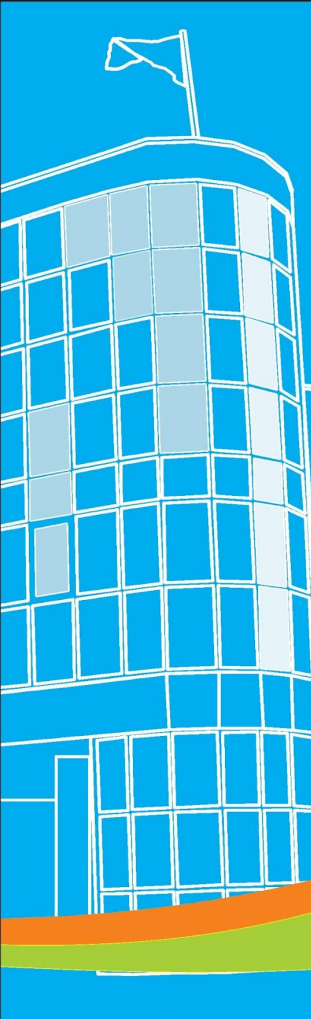
Other exams for university enrollment

IELTS

SAT Reasoning Tests

SAT Subject Tests

NUFYP



PASTORAL WORK



Through academic process

PASTORAL WORK

Through extracurricular activity



20

Number of clubs



- Development of creative skills of students
- Development of leadership skills
- Formation of organizational skills



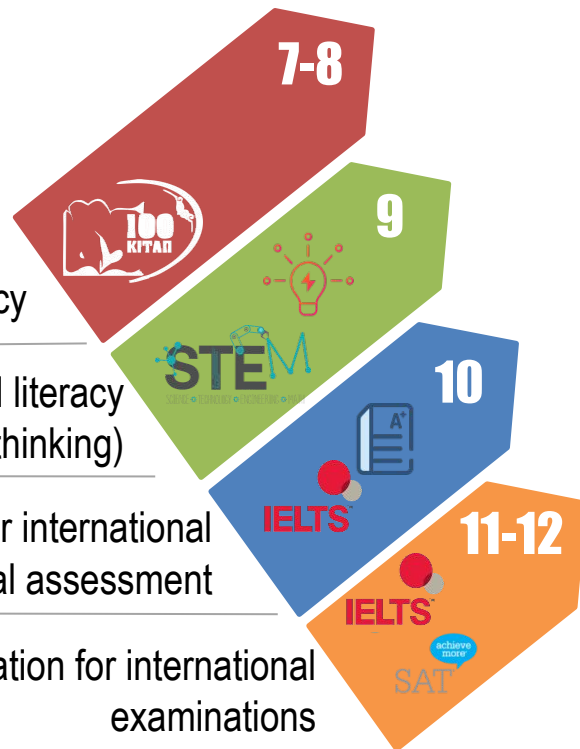
MORNING DISCUSSIONS

Development of reading literacy

Development of functional literacy
(STEM, Design thinking)

Preparation for international
examinations, external assessment

Preparation for international
examinations





- «10 days in workplace of parents»
- «2 weeks in village»
- «Introduction with parents workplace»



Social projects

- Volunteering
- Visiting orphanages and «Aged people house»
- Creative ground for children



Community service

- Propaganda of Wikipedia in Kazakh
- Conducting TEDx at the city level
- Participation in competitions Model UN

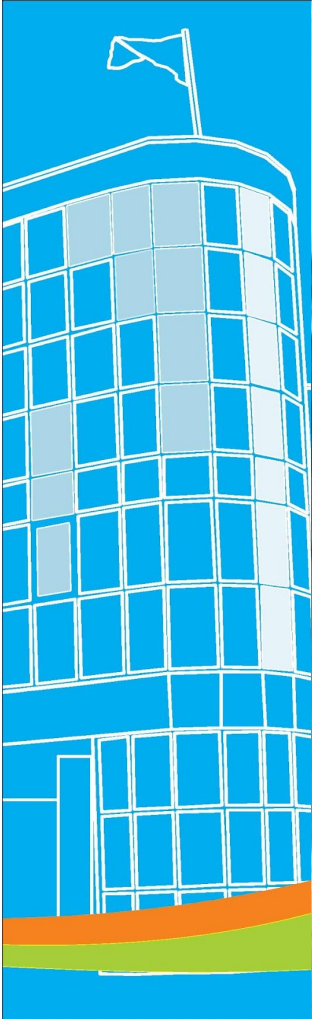


Wikipedia, TEDx, Model UN, Ecological club

- Development of reading literacy
- Development of patriotism



Bookcrossing, «100 ән», «100 кітап»



SCIENCE AND RESEARCH

SCIENCE PROJECTS

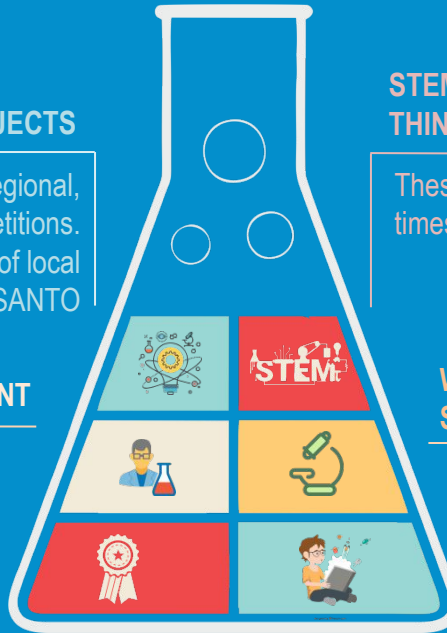
Preparation and participation in regional, national and international competitions. Competition of scientific projects of local enterprises as SANTO

SCIENTISTS INVOLVEMENT

6 local and 1 international scientists are involved to work with talented students. Directions: biology, chemistry, physics, math and critical writing

PREPARATION FOR OLYMPIADS

Preparation and participation in regional, national and international Olympiads. Organizing training campaigns during winter and summer holidays for Olympiad team



STEM AND DESIGN THINKING COURSES

These courses are organized 4 times a week for grade 8-9 students

WORK WITH TALENTED STUDENTS

- Scientist involvement
- Courses of second foreign language
- Scientific projects and subject Olympiads
- Summer school programs in Kazakhstan and foreign countries
- Defining student interests



SPORT

SPORT INFRASTRUCTURE



2 sport halls



Gym



Tennis ground



Basketball ground



Football ground



Wall for climbing

SPORT SECTIONS



Volleyball



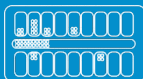
Basketball



Mini-football



Chess



Togyzkumalak



Table tennis



Tennis



Gym



Boxing



Judo



Curative exercise

SPORT EVENTS

Spartakiads

Shanyrak competitions

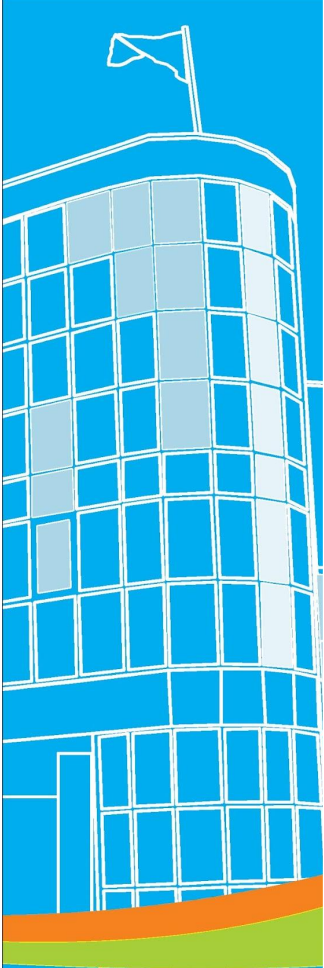
Parents and staff sport teams

Workout

National sport

Athletics, crosses

STEM cyclings



RULES OF COMPETITIVE SELECTION FOR STUDENTS

SELECTION OF CHILDREN
capable of studying natural and
mathematical sciences



PSYCHOMETRIC PROCESSING OF RESULTS,
allowing to take into account the quality of test tasks
and automatically adjust the final scores

1ST DAY OF TESTING

Subject test



Mathematics



Kazakh



Russian



English



40 q.
60 min



20 q.
40 min



20 q.
40 min



20 q.
40 min

Selection procedure

Applicants who have received the following score are
eligible for the grant:

35% math **40%** Quantitative characteristics

2ND DAY OF TESTING

Ability Test



Quantitative characteristics



60 q.
30 min



Spatial thinking



74 q.
47 min

Ranking for the award of a grant

1 High overall score of 4 subjects

2 High score in mathematics

3 High score for the 2-round

A background image showing a close-up of a hand holding a black pen, poised to write on a document. The image is slightly blurred, focusing on the pen and the hand. The title text is overlaid in the center.

RULES OF COMPETITIVE SELECTION FOR TEACHERS

01

Official announcement
(date, time, place of
competitive selection,
number of vacancies)

03

**Testing the
candidates**

05

**Interviewing
the candidates**

**Receipt of
documents
and
consideration**

02

**Creative tour
(essay)**

04

**Closing session of the
competition
commission**

06

Testing the candidates

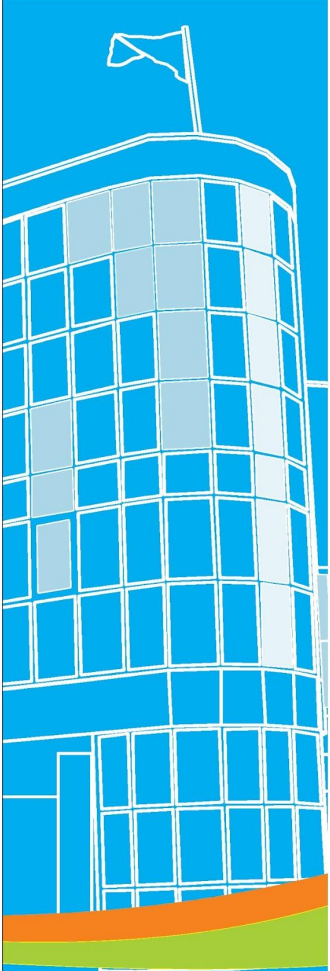


**25 questions for subject
Passing score is 13**

Creative tour (essay)



**No more than 250 words for the given topic
Highest score is 5**



Extra English classes
for students on IELTS



Extra language
classes for students



Language courses
for teachers



Individual consultations
with language teachers

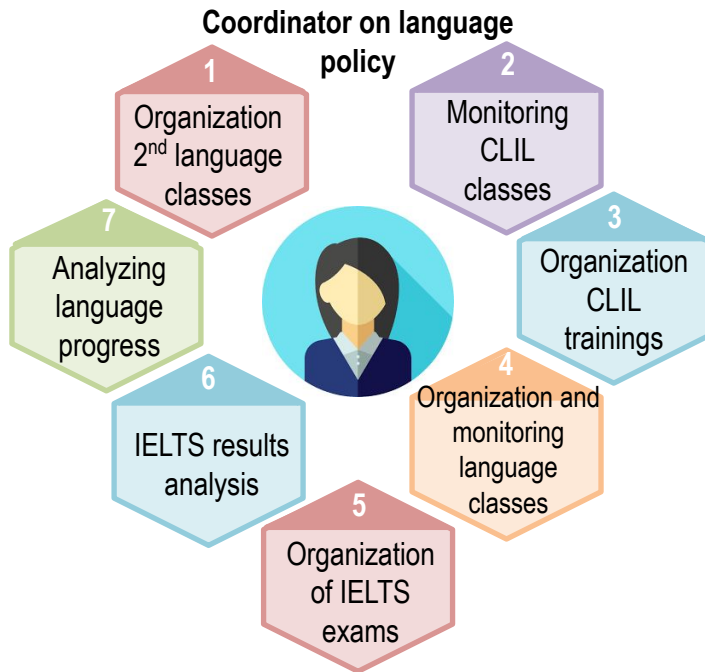


Classes for second
foreign language



CLIL seminars for
teachers teaching
subjects in L2/L3

Coordinator on language
policy



Number of learners second foreign
language

146

63



54



29

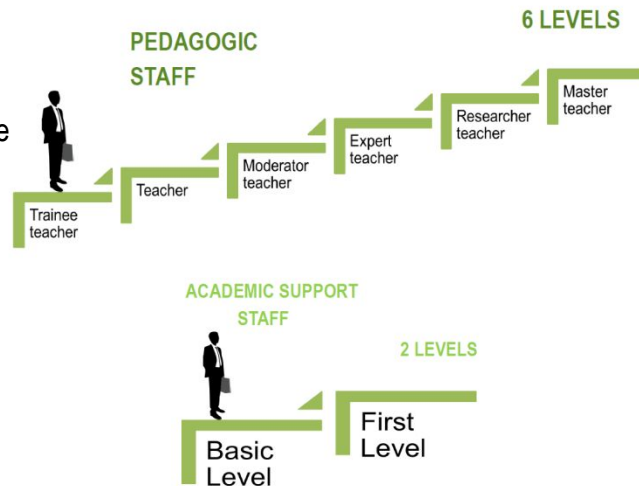




PROFESSIONAL DEVELOPMENT AND ATTESTATION

-  Action Research
-  System of mutual learning
-  Team teaching
-  Courses in foreign countries
-  Mentoring system
-  Courses of Center of pedagogical excellence
-  ICT
-  KazTest
-  IELTS, APTIS
-  Internship programs in foreign universities
-  Master programs in foreign universities
-  Master programs in Nazarbayev University
-  CELTA
-  STEM, PISA, CLIL
-  Design Thinking

ATTESTATION SYSTEM



A special system of attestation for the principal and deputy principals



PARTNERSHIP

PARTNERSHIP WITH COMPANIES

 **SANTO**



The Chamber of Entrepreneurs
of South Kazakhstan

ECOPHARM



Zerde Group



**Nazarbayev
Intellectual
Schools**

Chemistry
and Biology
in Shymkent

NIS

INTERNATIONAL RECOGNITION

CIS MEMBER



COOPERATION WITH EDUCATIONAL ORGANIZATIONS



South Kazakhstan State University named after M. Auezov



South Kazakhstan State Pharmaceutical Academy



Buncombe County
Early College
Северная Каролина, США



Suzhou Industrial Park
Foreign Language School
Китай



Städtische Realschule
Sundern, Germany



APPLEBY
GRAMMAR SCHOOL

Canada





1

Pilot schools

School- gymnasium № 15
M.Zhumabayev, Turkestan

NIS



Secondary schools in Shymkent
and regions



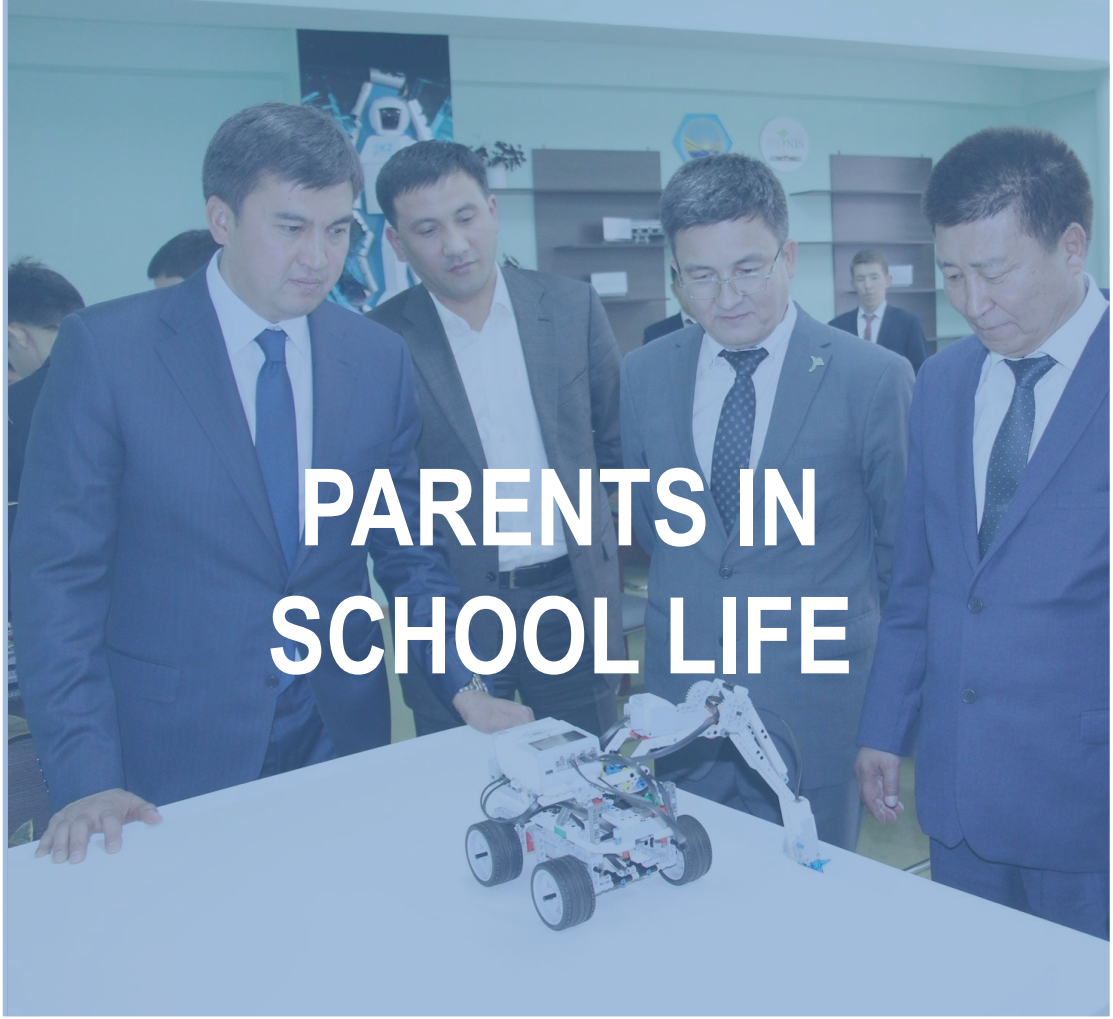
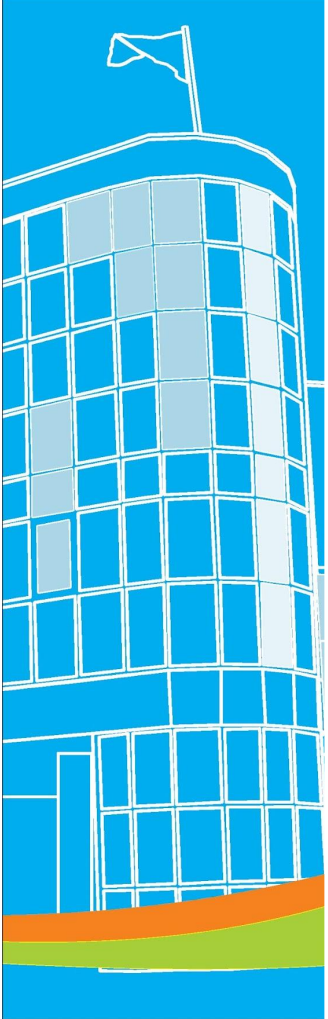
Seminars for directors and
deputy principals of
secondary schools

- Conducting school self evaluation
- Designing school development plan
- Strategic school management
- Systematic training and monitoring of students' knowledge and achievements
- Data analysis of students' achievements



Seminars for teachers

- Work with gifted students
- Designing tests
- Implementing IT in education
- Research in practice
- IELTS preparation
- CLIL methods
- Implementing new educational program and assessment system



PARENTS IN SCHOOL LIFE



Parents' university:
seminars for parents

Pastoral and curators'
classes



School projects



Masters' city:
professional master
classes with parents



Open door days



**Events,
concerts**



Accomplishment of school territory

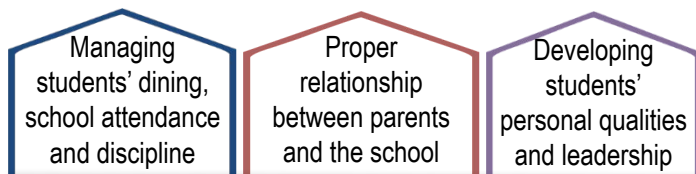


**Sport teams, contests
with parents**

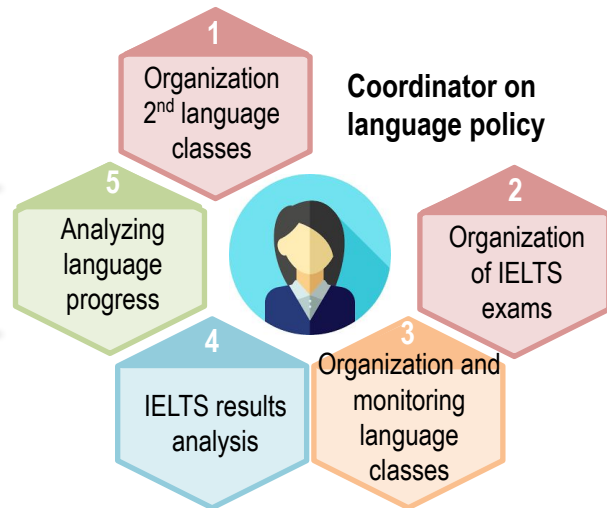
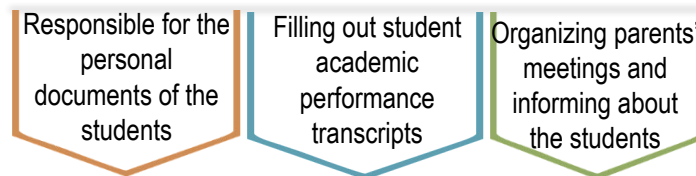
**Charities and
community service**







Curators (every curator leads 2 grades)



Working with parents

Carrying out the behavior modification of re-accepted students

Psychologists



Working with students for the solution of personal problems

Rendering information and psychological support

Carrying out motivational trainings, questionnaires, therapies for students

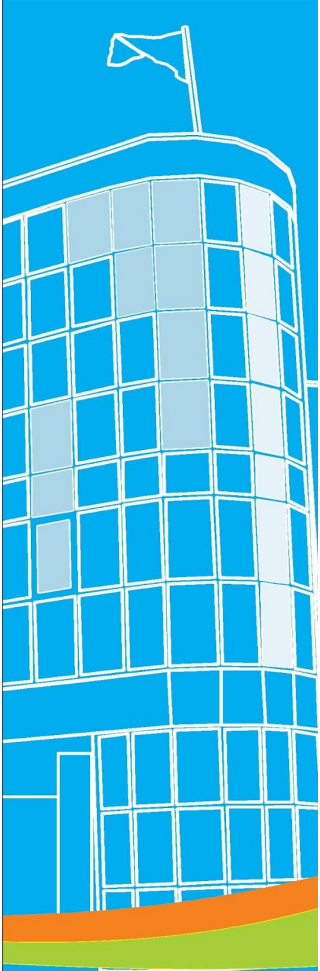
Career counselor



Helps the student profession (provides questionnaires, trainings, and also arranges visits to the region's industrial organizations)

Administering international tests (SAT, IELTS)

Organization of the application to Kazakhstani and world universities (documents, applying and educational fairs)



School medical personnel

Pediatrician

School nurse

Dentist

3 nurses of the boarding school

Nurse of the dentist

Nutritionist



Health and safety during the classes

Safety regulations

First-aid kits in the classrooms

Training of teachers in first aid

Fire extinguishers in the classrooms



Food:

breakfast, dinner,
afternoon, snack

for the students of the boarding
school there is also the 1st and
2nd supper.

Equipment for people with disabilities

Lifts

Ramp at the entrance

Special resrooms



Safety Engineer

Alerts of 3 emergency situations: "Fire",
"Earthquake" and "Lockdown Lock"

Emergency training schedule

Accompaniment of the crew of the patrol
service during the trips of students



BOARDING SCHOOL



The placement policy sets a priority that takes into account the social characteristics of students



The rules of the boarding school establish the rights and duties of students



BOARDING SCHOOL

132 students



60 boys



72 girls

17 staff

1 head of the boarding school
1 commandant
8 boarding school tutors
4 tutor assistants
3 nurses



10 clubs

18 extracurricular activities

Annual concerts

Holiday events

Community service: charities and work with orphanage and veterans houses



24 hour medical support

5 time meal

24 hour security service

Cameras in the hallways

Turnstile system

Internatmonitor – registering program

STUDENTS ACHIEVEMENT





- Average IELTS – 5,9
- 75 graduates enrolled to Nazarbayev University
- 10 graduates are studying in foreign universities



- International contest – **1 winner**
- Contests of UNESCO – **3 winners**
- Republic contest – **3 winners**
- Nauryz conferences – **3 winners**
- International Art contest – **2 winners**



- Republic Olympiad – **2 winners**
- Republic Olympiad in Robotics– **4 winners**
- **2** Participants of Worldwide Robotics
- Republic Olympiad in history “Tarih Ata” – **9 winners**



- Network Olympiad (volleyball, girls) – **1st place**
- Network Olympiad (togyzkumalak team) – **3rd place**
- Republican contest (Relay race, boys) – **2nd place**
- Republican contest (Relay race, boys) – **2nd place**

Results of
graduates

Projects

Subject
Olympiads

Sport



LANDSCAPING THE SCHOOL TERRITORY



500

Ornamental
shrubs



5000

Perennial
flowers



2000

Annual
flowers



2000 M²

Lawn grasses



5000

Rose garden



150

Grapes of
different varieties



70

Flower stands



3000 M

Clover



2200

Ligustrum



1500

Poplar



1500

Roses



600

Tulips



Alders



Biohumus



Outdoor trainer



Workout

We are in social media

www.facebook.com/nis.hbn.shymkent



[@nis.hbn.shymkent](https://www.instagram.com/nis.hbn.shymkent)



www.vk.com/nis_sh



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ХБН г. Шымкент



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