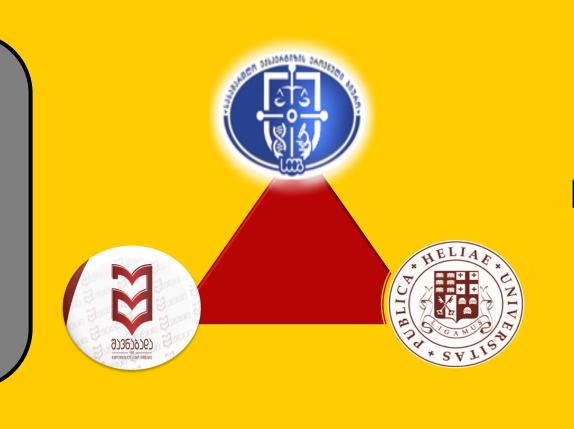


The way from school to science

Purpose:

- To create co-operative triangle : University School-Enterprise;
- . To promote Biology among students;
- . To encourage students to develop inquiry skills.



Practical research to teach natural

science

Ilia State University

School: Tbilisi's Independent National

The partner: Levan Samkharauli National

Forensics Bureau.

Teacher: Inga Paksashvili

Target group: 10th form

Subject: Biology

Gimnasium "Shavnabada"





In 2017-2018 different types of actions were planned and carried out to increase the students motivation within the project "ARTIST".

The students saw and did the researches in the cheese enterprise "Shirak".



Action: To find out if the students motivation increased or not after being in "Shirak", I collected the data by questioning and with the help of the focus-group.

Observation: The questioning showed that the student did not have the desire to connect the future profession to Biology. The focus-group named the reasons: These were working with technologies and methods.

Reflection: It was necessary to find the enterprise which was equipped with latest technologies and research methods.

Planning: I planned to take the students to the Levan Samkharauli National Forensics Bureau.

Many types of expertise are carried out in Samkharauli Bureau: Medical, Biological, Drugs, Psychiatric, Toxicological, Diallopecic, Food products, Ballistics, Chemical, Corporeal material, Serologic, Cytological, Blood groups, Handwriting, Radiation and etc.

Cycle

Action: I introduced the action plan to my students how to establish a relationship with a new organization.

Observation: Everybody liked my action plan.



Reflection: For theoretical readiness the student decided to find out what types of researches are carried out in the forensics bureau.

Planning: I planned for them how and where to find necessary information.

Cycle



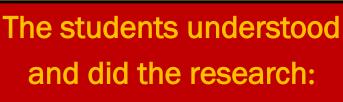


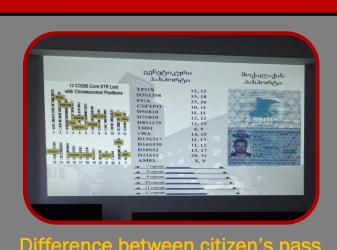
Action: I took the students to Levan Samkharauli National Forensics Bureau, wear they learned how to do different types of expertise, and they participated in some types of researches.

Observation: It was noticed that the students had high level of interest.

Reflection: The students summed up the information they found to the knowledge they got recently.

Planning: I planned school conference where my students would introduce the latest research methods to their peers and invited teachers.











The students listened to very interesting lectures about research methods.

Focus-groups

Analyzing results

Questenning



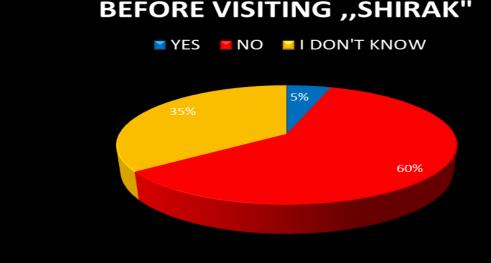
The students pointed out that they liked quaiet and cosy environment, cleanliness and the newest technologies that they got amazing results...

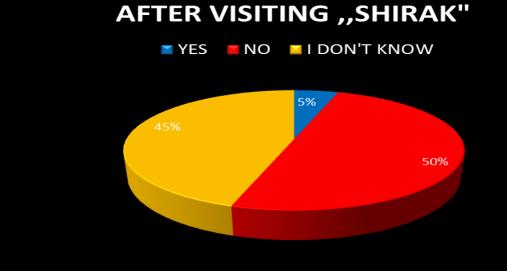
They liked the process of finding their blood group best of all.

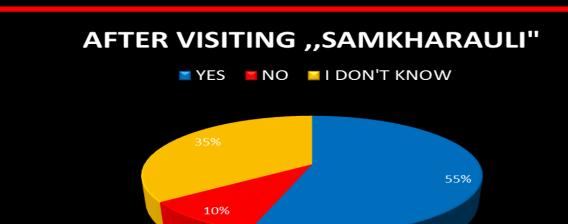












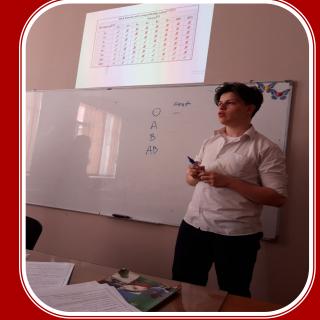


The students summed up the information they found, and the information they received recently. They worked on topics about the latest research methods. The y worked on 17 tiyes of research methods on the whole.



The students sheared their own research meth-

ods to each other







The best research methods were presented at the conference



shared research result to my colleagues and we planned our future goals







