

From the School Laboratory to the Cheese Factory

Practical Research to Support Science Education

Promoting the development of entrepreneurial and practical skills and abilities of secondary school students

Objective :

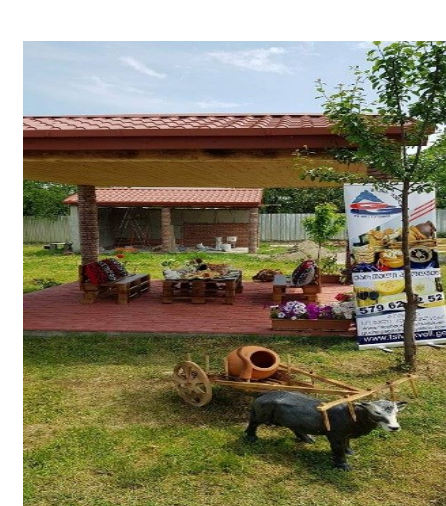
- . Increase students' interest and motivation for science education by engaging in cheese-making activities.
- . Facilitate the development of students' research, entrepreneurship, and collaborative skills at science lessons
- . The transfer of knowledge relating to the production of cheese, acquired in science education, into entrepreneurial activities



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I Cycle



- . A visit to the company;
- . Research topic: The importance of science in everyday life and/or in entrepreneurial activities
- . Interview with the company boss
- . SWOT analysis
- . Survey
- . Focus group interview

- Low student awareness of the use of science subjects in daily practice
- The problem of establishing a link between science and career
- The importance and need to have the skills and abilities necessary for working in a company

- It is important to focus on the following topics:
- Increase students' awareness
 - Connect science with everyday life and entrepreneurial activities as well as the choice of a future occupation
 - Develop students' research and entrepreneurial skills

- Training Module:
- Creation of company layout and cheese label
 - Information retrieval / processing / presentation
 - Research - creating optimal conditions for cheese production
 - Practical work in the company

II Cycle



- . Layout and labels have been created
- . The information has been retrieved and presentations have been made
- . Research in the school laboratory
- . Visits and practical work in the enterprise

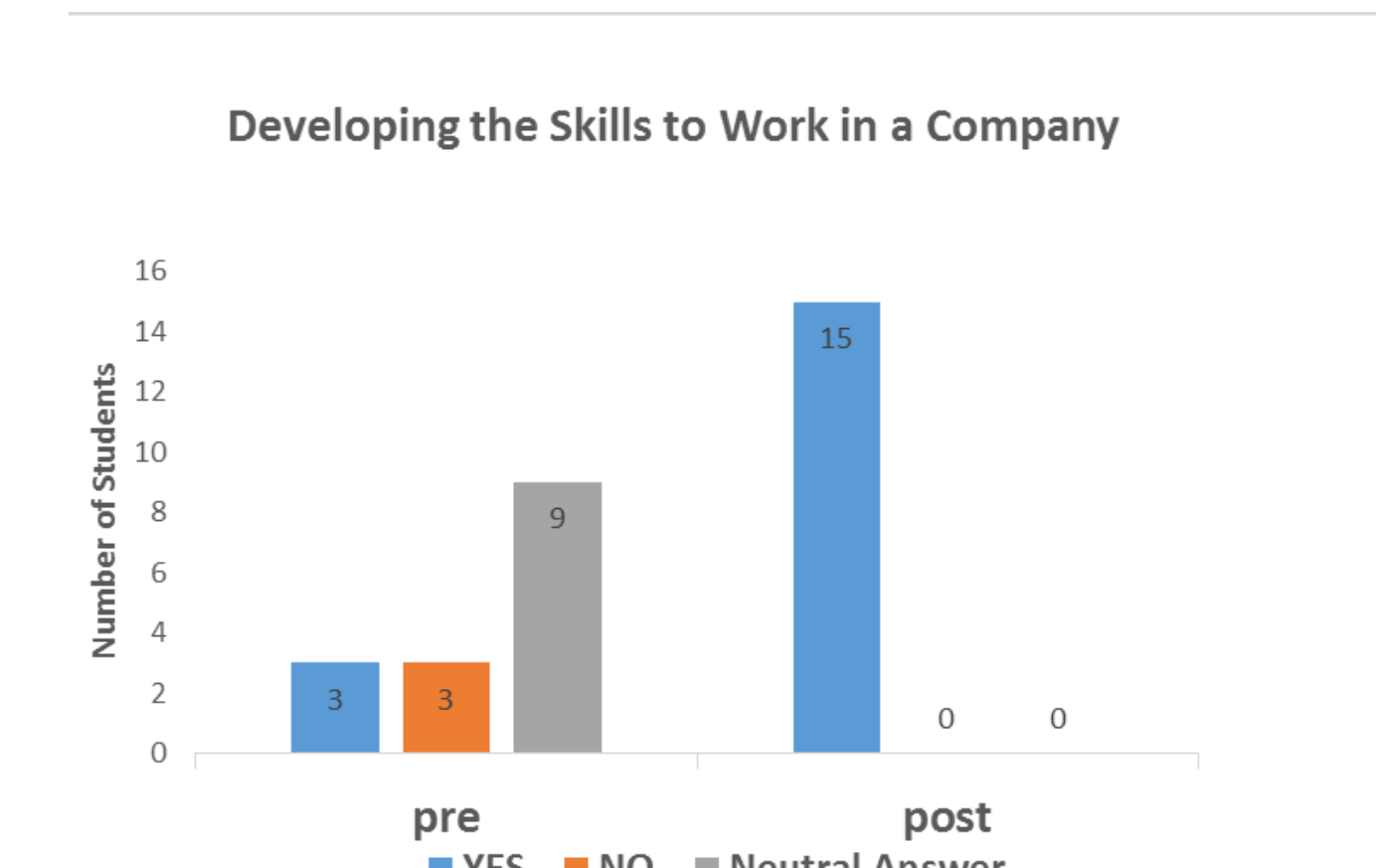
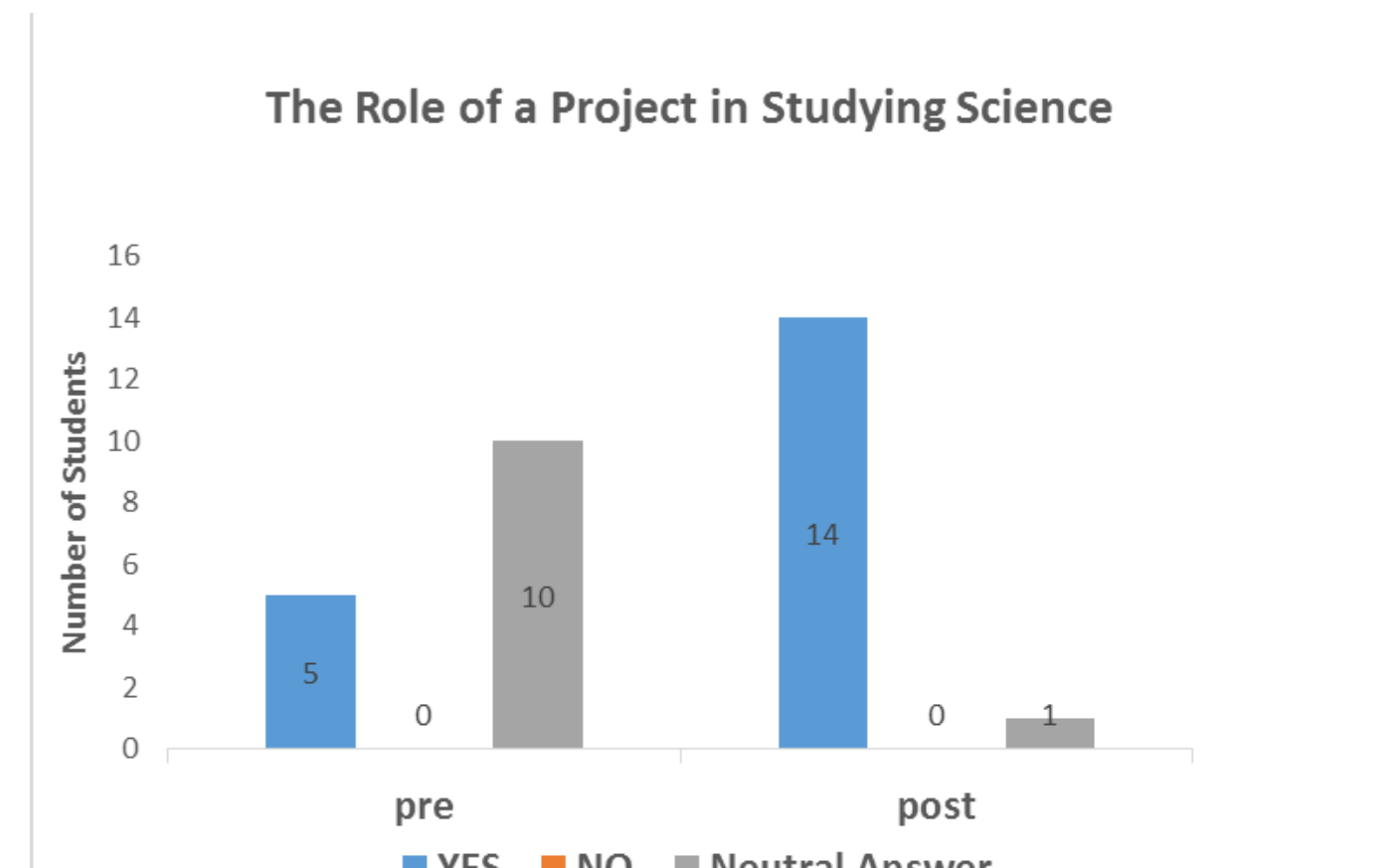
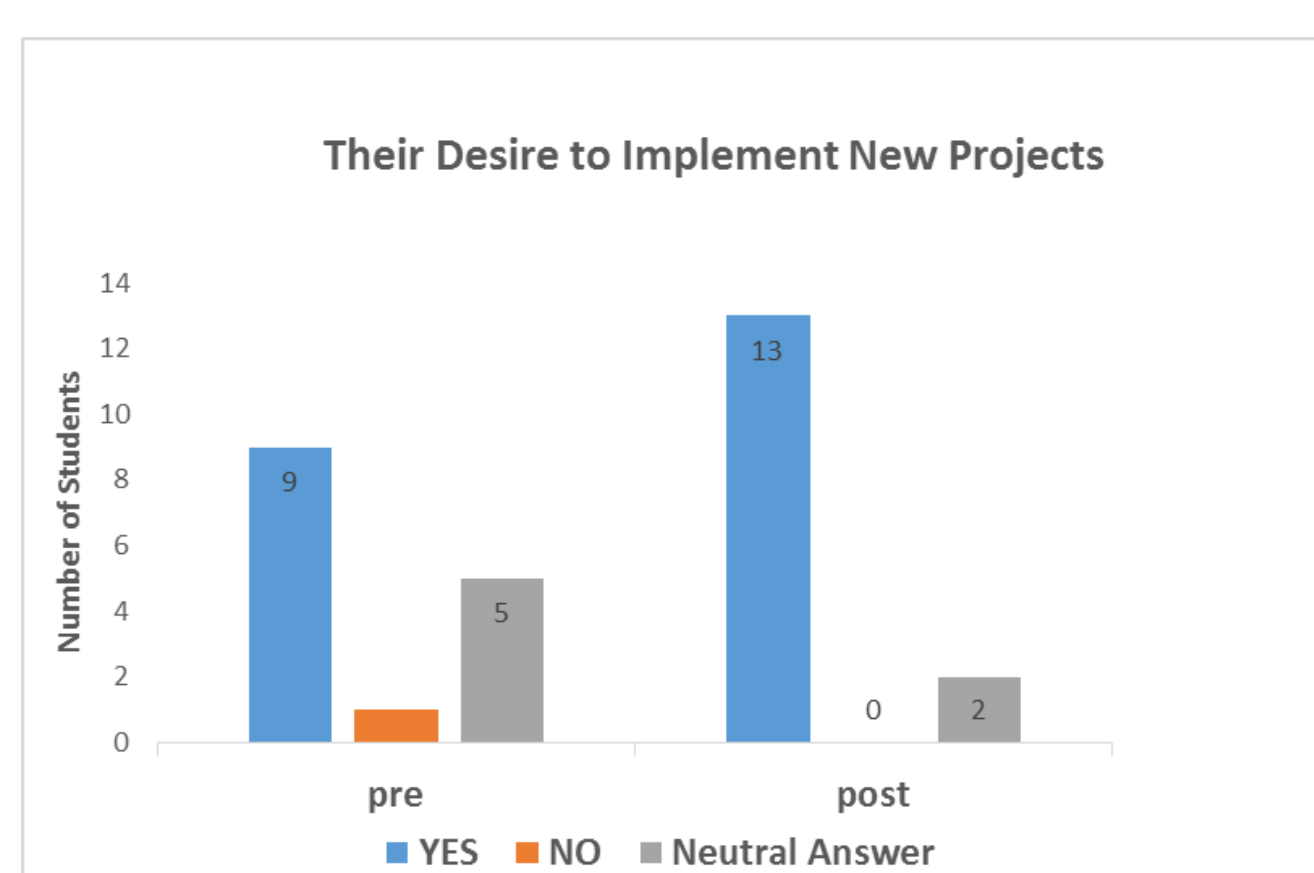
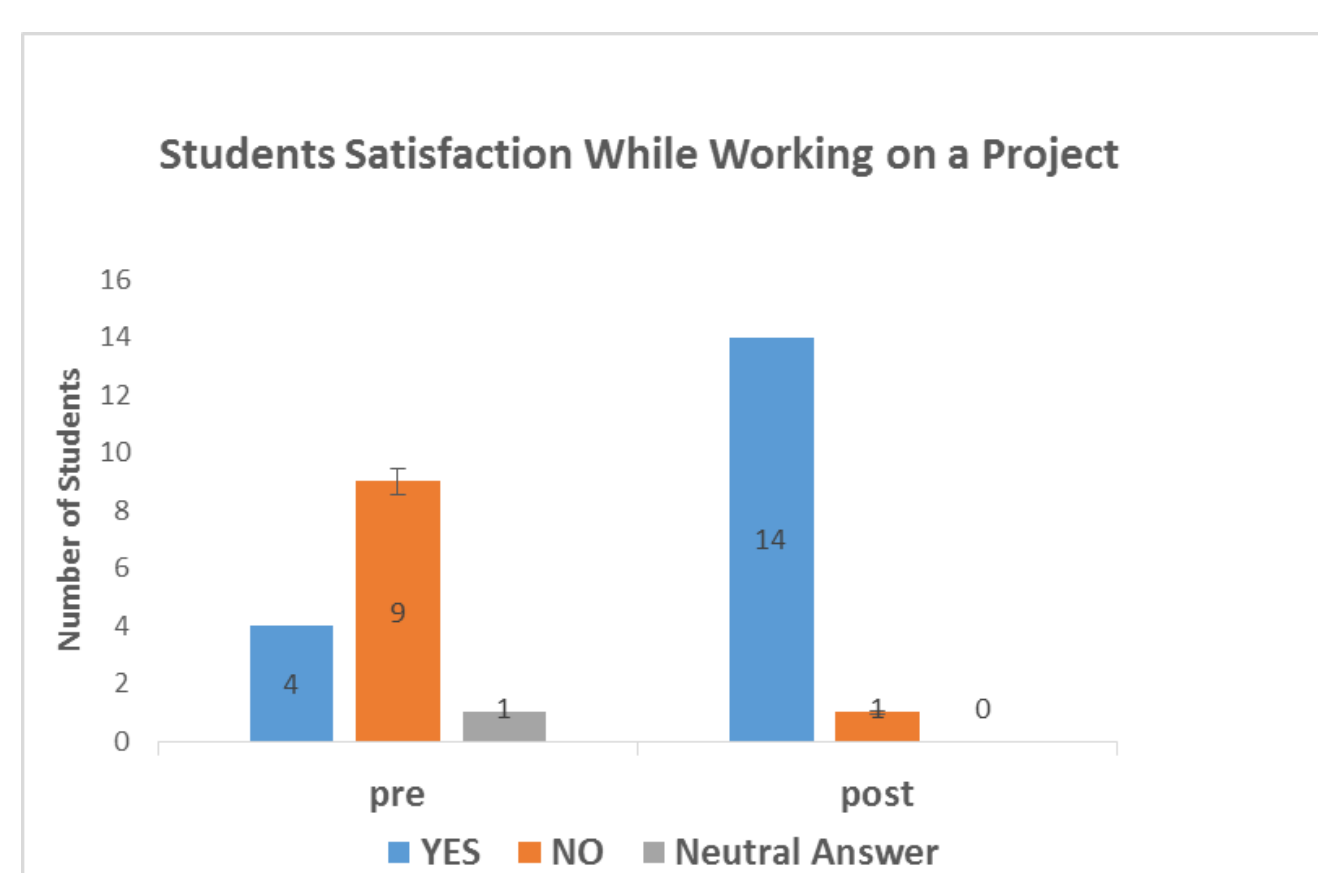
- . Classroom observation- self-observation/ introspection
- . Research Diary
- . Determining students' competence level for research planning and implementing through research activities –assessment rubric
- . Determining the level of students' entrepreneurial skills through practical work- assessment rubric

The analysis of the research instruments showed the following:

The students follow the work rules in the enterprise;

They use the findings from research and produce different types of cheese using special tools;

Students collaborate with each other and company employee



Conclusion and Recommendation:

The activities carried out within the project contributed to the freedom of the students, their increased interest and motivation as well as the development of their entrepreneurial and practical skills. It is important to undertake joint, coordinated projects involving schools, universities and companies, which can play an important role in choosing the future profession of students.

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