Blaj is a town from Transylvanian plateau, at the confluence of Târnava Mică river and Târnava Mare river, near to Mureș River, surrounded by forested hills, and two natural reservations. Working with students, will point some particular aspects of this area, as well as some methods of teaching and studying science.

“To understand our bio diversity” is a project addressed to 8th to 11th grade students and its structured in three important stages:

**first stage:** “Following a star”
- Learning orientation by the stars, students had to determine the coordinates using the positions of stars in the sky.
- Astronomical Club from our school was involved with activities as:
  - observational nights for community, activities in which students were transformed into the role of teachers to guide the sky.
  - using measurements over Polar’s position they had to determine latitude of the place
  - using a stick and Sun, also they had to determine latitude of place
  - development of information materials (leaflets, posters)
  - astrofotography

**second stage:** “Know your home lands” involve:
- recognition relief, fauna, vegetation
- landscape photography

Blaj is situated in the great valley of Târnava Mare. In the surroundings, the landscape is predominantly hilly, composed of long and gentle slopes, with peaks ranging from 450 to 550 m altitude. Being located in a hilly area, Blaj is a city of wine, in the area planted different varieties of grapes for the famous wine Jidvei. Târnava’s Meadow offers fertile ground for vegetable growing. Surrounding hills with a vegetation of acacia, pine and Hardwood are perfect temptation for bee breeders, here is an area known in beekeeping.

On the northern edge of Blaj, is Lake Chereteu with an area of over 1 ha and a maximum depth of 2.20m. It was formed by a landslide from the neighbouring hills and the water from rain and springs which accumulated behind it.

Panade lake or is located in hidrologic basin of Panade river, an affluent of Târnava Mica, to altitude of 368 m, behind of landslide of Chiciu hill, 463m. It has an area of 1.5 ha, maximum depth of 2.80 m. Panade lake is one of the biggest natural dam lake from hilly region

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third stage: “ Here we live” is the final step of the project and involves achieving a model of the surroundings, model to emphasize the hilly area, vegetation, Târnava Mare and Târnava Mica rivers, and their confluence, and the two lakes considered natural reservation.

As work technics we mention investigation, thematic trips, group work, public debate, computer working, statistic work. To encourage students are also proposed and participation in science festival.

All pictures are made by students, in their research work, in Blaj and around Blaj, Chereteu lake and Panade lake, and represents parts of flora and fauna around Blaj.