

## Summary LLT3 SIBN - Greece - March 2022

For LTT3 in Alexandroupoli the focus was on studying the mechanisms that plants and animals use, in order to imitate them and incorporate this knowledge in designing a rainwater collector. This collector would be part of a construction that was programmed in Spain using the open-source Arduino Software (IDE).

The activities that took place in Alexandroupoli were:

- A presentation about hydrophilia and hydrophobia to learn how plants preserve water
- An online lecture with the environmentalist Mr. Katikas on biomimicry
- Guided tour in silk museums in Soufli in order to understand the properties of silkworm threads
- Visiting the river of Nestos and the lake Vistonida to watch birds and study plants
- An online lecture with the professor of the Aristotle University of Thessaloniki, Mr. Polatoglou (Department of Physics and Materials Science) on biomimicry and nanotechnology
- Workshop in groups designing posters and creating a rainwater collector in Tinker cad and presenting their results
- Testing the knowledge, the students gained in a digital escape room on biomimicry created by Mr. Sitsanlis (<https://seilias.gr/erasmus/greece/>)

All these activities helped students to

- develop cooperative learning
- implement technological learning process
- learn about biomimicry and nanotechnology
- be creative
- improve their language skills
- promote cultural exchange and European identity