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### Bees for the Future

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# Bees for the Future

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## Abstract

In the academic year 2018/2019, students from Escola Secundária Jaime Moniz studied the importance of bees for the future using digital tools, platforms and a simulator that represented the influence of the increase or decrease of flowers to the bee population and the other way around. They also established collaboration with their community to research their level of awareness, to collect knowledge from experts and to analyze the health of the bee population in their island. For this, they collected information in a series of forms, which they shared in the Globallab platform with students from other parts of the world, gaining awareness of the relevance of problems at local and global levels. In the process, students visited a honey producer and organized a conference with the beekeeper. In the end, each group of students created a final product to present to the educational community, raising awareness of the problem studied. The products created were posters, leaflets, models, games, beds of honey plants, hives and hotels for bees.

## Keywords

Bees; biodiversity; biosphere; ecosystem; honey.



# BEES FOR THE FUTURE

Escola Secundária Jaime Moniz – Funchal • António Freitas, Cecília Ferreira, Conceição Campanário, Fernanda Freitas • Classes: 10<sup>2</sup>, 10<sup>4</sup> e CEF61 • Disciplines: FQA, BG, AC

### Abstract

For about four months, in the academic year 2018/2019, ESJM students used tools, platforms and simulators; went through several activities that promote interdisciplinarity; use the scientific method and establish contacts with the community. They also had the chance to conduct surveys and share their responses on the Globallab platform, gaining awareness of the relevance of problems at local and global levels. In the end, each group of students from each of the classes mentioned above created a final product to present to the educational community, raising awareness of the problem studied. The products created were posters, leaflets, models, games, beds of honey plants, hives, hotels for bees.

**Keywords:** Bees; honey; ecosystem; biodiversity; biosphere

## Sentir Feel



Students became aware of the global, national, regional and local decrease in the number of bees. In view of the interest shown by them, the following work questions were asked:

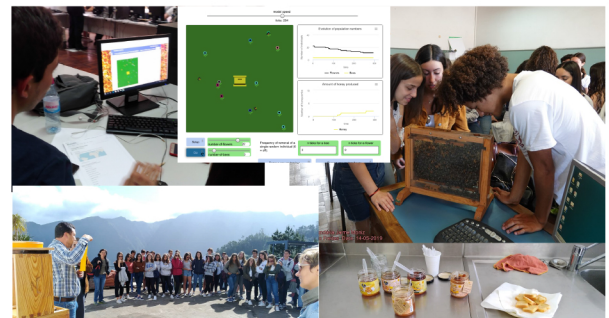
- Are bees in decline?
- Has the number of bees on Madeira Island decreased?
- What do bees give us?
- What do we give bees?
- What is the importance of bees to the Biosphere?

## Criar Create



In order to answer the questions posed, the students built models, posters, leaflets, a hotel for bees, sowed honey plants in pots, disseminated their knowledge to the school and surrounding community. In this sharing, entities external to the school, such as the melarias that are part of the project, undertook to intensify the planting of honey plants in the lands surrounding their factories, contributing, among other aspects, to the increase of the bee population in RAM.

## Imaginar Imagine



Students viewed films, documentaries, used simulators, based on the scientific method, responded to surveys, interviewed several personalities from the community and visited a honey factory, with the aim of collecting data and serving as an inspiring motto to the questions posed to the theme under study.

## Partilhar Share



The work carried out by students of the classes involved, served as an inspiration to the community. So much so, that this year, other classes are already part of methodologies proposed in the Project IDiverSE and OSOS, with other themes.