

Introduction to Genetics: from Proteins to Mendel

Objectius

- To learn some specific content from the Biology curriculum through English.
- To read, write and talk about Mendelian Genetics in English.
- To develop cognitive skills in a CLIL context.
- To engage students positively in a CLIL environment to benefit both from the learning of the content and the learning of the language.

Descripció de la proposta

This project is a Biology unit designed to be developed in 1st of Batxillerat. It is a Biology unit focusing on an introduction to Genetics and using a CLIL approach in English.

Aspectes didàctics i metodològics

The project is divided into two units. Each unit is divided into four lessons. The first part explains the fundamentals of molecular genetics while the second part is an analysis of Mendel's laws and their application to inheritencial problems.

In the different activities, learning is considered as a social event: students learn from listening to and assessing their peers in collaborative work; but also as a reflective event: they need time to reflect upon what they are learning to do and work on some activities on their own. The teacher provides support and help in the learning process.

Recursos emprats

This didactic sequence contains downloadable worksheets addressed to students and ready to use materials and resources for teachers (ppt presentations, flashcards, games, videos, etc.).

Competències i continguts que es treballen de forma destacada

The lesson plans of this didactic sequence have been designed taking into account the specific skills of the two subject areas involved plus some transferable competences.

Alumnat a qui s'adreça especialment

These CLIL materials are suitable for students of upper secondary education.



Interdisciplinarietat, transversalitat, relacions amb l'entorn...

This didactic sequence combines content from the English language curriculum and the Biology curriculum.

Documents adjunts

The materials of this didactic sequence are structured as follows:

- **Introduction** to the didactic sequence with information about the context and the development of the units.
- **Lesson plans:** detailed information of the different units contained in the sequence with the teaching objectives, learning outcomes and assessment criteria.
- **Students' worksheets:** downloadable ready to use materials in pdf files.
- **Teaching notes:** step by step instructions to implement the didactic sequence.
- **Support teaching resources:** supplementary materials to support the teaching of the didactic sequence.

All these materials are accessible at:

http://www.xtec.cat/monografics/cirel/pla_le/nile/rosa_macaya/

Autoria

This material was developed by Rosa Macaya Vidal in a paid study leave of the Catalan Department of Education, run by Norwich Institute of Language Education in the 2010-2011 academic year.

