

Kinematics

Objectius

- To learn some specific content from the Science curriculum through English.
- To read, write and talk about kinematics 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 designed to be developed in 4th of ESO.
It is a Science unit focusing on Physics and Chemistry and using a CLIL approach in English.
The project introduces Physics in Science and focuses on Kinematics and motion.

Aspectes didàctics i metodològics

The project is divided in 4 parts:

- Lesson 1: What is Physics?

To make an introduction to Physics, definitions and method.

- Lesson 2: Physical magnitudes

To make an introduction to the physical magnitudes.

- Lesson 3: Language of Kinematics

To describe Motion with words, diagrams, numbers, graphs and equations.

- Lesson 4: Describing motion

To describe Motion with graphs and equations.

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 secondary education (ESO).

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

This didactic sequence combines content from the English language curriculum and the Science 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/nottingham/isa_pont/index.htm

Autoria

This material was developed by Isabel Pont Sala in a paid study leave of the Catalan Department of Education, run by the University Nottingham in the 2007-2008 academic year.

