

## English through Science

### Objectius

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- To learn some specific content from the Science curriculum through English.
- To read, write and talk about acids and alkalis 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

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This project is designed to be developed in 4th of ESO. It is a Science unit focusing on acids and alkalis and using a CLIL approach in English. The project aims to make an introduction to acids, alkalis and indicators; to discuss hypotheses and perform experiments.

### Aspectes didàctics i metodològics

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The project is divided in 5 units:

- Unit 1: Indicators
- Unit 2: Properties of acids and alkalis
- Unit 3: Indicators in some brightly coloured plants
- Unit 4: The pH scale
- Unit 5: Use of the pH paper and the pH probe to read the pH

### Recursos emprats

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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

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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

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These CLIL materials are suitable for students of secondary education (ESO).

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

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

## Documents adjunts

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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/joan\\_alberich/index.htm](http://www.xtec.cat/monografics/cirel/pla_le/nottingham/joan_alberich/index.htm)

## Autoria

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This material was developed by Joan Alberich Carramiñana in a paid study leave of the Catalan Department of Education, run by the University of Nottingham in the 2006-2007 academic year.

