



PARSEL teaching –learning materials compiled by the consortium
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A big problem for Magalhães (Magellan): Food preservation

A 8th to 9th grades student's module for use in Chemistry and Natural Sciences curricular areas

Abstract

The main goal of this task is to learn more about food preservation. For that, students will engage with reading texts and developing an investigation about the effect of different food preserving methods. They will have to share and confront their findings with the whole class.

This unique teaching-learning material is intended to guide the teacher towards promoting students' scientific literacy by recognizing learning in 4 domains – intellectual development, the process and nature of science, personal development and social development.

Its uniqueness extends to an approach to science lessons which is designed to be popular and relevant. For this the approach is intentionally from society to science and attempts to specifically meet student learning needs.

This uniqueness is specifically exhibited by:

1. a society related and issue-based title (supported in the student guide by a scenario);
2. student-centred emphasis on scientific problem solving, encompassing the learning of a range of educational and scientific goals;
3. including socio-scientific decision making to relate the science acquired to societal needs for responsible citizenship.

Developers: Freire, A. (coord.), Baptista, M.; Cruz, N.; Nunes, T., & Vilela, C. (2007). Magalhães and Circumnavigate Voyage. In Universidade de Lisboa (Ed.), *Professores Europeus de Ciências (PEC): Conhecimento científico, Competências linguísticas e Meios Digitais*. Lisboa: Professores Europeus de Ciências (PEC) – Sócrates Project 226641-CP-1-2005-ES-COMENIUS-C21, 2005-2008.

Institute: University of Lisbon
Country: Portugal



Subject: Chemistry Sciences and Natural Sciences (Biology and Geology).

Grade level: 8th – 9th grade

Overall Objectives/Competencies: The objective of this task is to learn more about food preservation. For that, students are expected to:

- Read texts,
- Search for information on the website,
- Develop an investigation activity about food preservation
- Present their findings and communicate it to the whole class.

Curriculum content: Food preservation methods

Kind of activity: Scientific investigation + problem solving + decision making

Anticipated time: 3 lessons (40 to 50 minutes each)

Attached files		
1.	Student activities	Describes the scenario in more detail and the tasks the students should perform
2.	Teaching guide	Suggests a teaching approach
3.	Assessment	Gives suggested formative assessment strategies

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