

TITLE OF ACTIVITY / UNIT: Navigation

General presentation: *Within the project scientist in Barcelona, there is a day to learn about the sea and see the city from the sea: a different perspective*

DURATION	1 day (from 8:30 to 18h)	AREA/S	Science / English	LEVEL	High school (16-17 years old)
AUTHOR	Team of International Science Project C.E. Joan XXIII (pere.valls@fje.edu)				

OBJECTIVES	A different view of the city both for students that visit us as our own. While linking this possibility offered by browsing to make various scientific observations and work on physical geography of the coastline	CURRICULAR CONTENTS	We work on areas of math, science, geography and history. While an introduction to the techniques of navigation, maritime vocabulary, characteristics of vessels, which is not covered in concrete in any curricular area
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BASIC COMPETENCES

Audiovisual, language and communication competence

- English vocabulary on sea.
- Making a report on the activities of the day (written, images and video) working in teams.

Visual and artistic competence

Processing information and digital competence

- Editing a blog about the event, collecting images and video.
- Using GPS.
- Perform certain calculations using Excel.

Mathematical competence

- Students will perform various calculations, based on data collected aboard the boat calculates distances by triangulation, evaluation of wind power the ship from the wind speed and the surface of the sails.

Learning to learn

- Work after the activity, during the time that students have to do their job

Autonomy and personal initiative

- Work after the activity, during the time that students have to do their job

Knowledge and interaction with the physical world

- Knowledge activities of the ship, introduction to some basic tasks related to navigation equipment on board and use to perform various steps necessary for the work entrusted

Social and civic competence

- Teamwork on board

MATERIALS

- Activity handbook
 - Sextant
 - Anemometer
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DEVELOPMENT

Following the handbook instructions of the activity:

- Introduction advance (before performing the activity)
 - Submission of the dossier of the student the day before carrying out the activity
 - Monitoring the activities ruled during navigation
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AVALUATION

The teacher to the student:

dossier from the activity completed during the days of the activity, according to its own schedule each participating school

Toward the student to activity

included in the survey of satisfaction that students perform at the end of the exchange
