Erasmusplus KA1, school staff mobility

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Training course: ***Consolidating good CLIL Practice***

**Portogallo, Algarve, Quarteira 06-12 Marzo 2016**

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**Prodotto dell’intervento**

**MATHEMATICS CLIL LESSON**

***Derivatives of a function***

The task (main idea)

Discover the relationship between the first derivative and the increase and/or decrease of a function

1. **What the students need to be able to do for the task**

**Prerequisites**

* Definition of first derivative of a function
* straight line tangent of a function
* The straight line slope and its geometrical meaning
* Trend curve

**Learning materials**

* Pc and/or Mobile – internet -
* graphic softwares
* video by you tube
* books
* Imagines

**List of defined maths terms** – giving students the language needed for working together. It’s important to improve English language.

**First**

**Brainstorming as a class.**

**Then**

**working in groups of four**

1. **Class room arrangement**

* Work in group of four. It’s important mixing student for different way of learning, approaching and different TIC and social skills.
* Each group has to explain the topic to the whole class.

Cooperative learning

(Student discuss the topics as a whole class and together )

Redraft works.

The students can ask for help.

1. **Outcomes**

The students have to demonstrate maths, social and TIC skills. They have to present results and the correlation between derivative and trend of a function using graphics, theorems and logical connections.