**LESSON PLAN (DRAFT) Physical and chemical changes and environmental problems in our community.**

**Introduction**

This lesson plan can be carried out within the eTwinning project **‘Science Twinfriends.**

With this project we are going to use the CLIL methodology: English, Geography, Science and Technology teachers are going to collaborate on the main topic.

In this lesson plan we are going to analyse some chemical reactions and environment problems we have in our community.

**School:** lower secondary school

**Pupils’ age:** 11-13

**English Level:** A1

**Subjects: English,** English, Geography, Science and Technology

**Timing:** 3 hours at school (also co-teaching) and 2 hours at home

**Language Skills:** listening, speaking, reading, writing. European Key Competences: basic skills in Geography, Science and Technology, communicating in a foreign language, digital competence and learning to learn.

**Tools to be used:** Interactive White Board, PC, tablets, Web 2.0 tools (Quizlet), videocamera.

**Materials used:** posters, markers

**Methodologies:** CLIL, cooperative learning, learning by doing, flipped classroom

**Aims:**

• To enhance our pupils’ understanding and knowledge of the environmental problems of our region and town and distinguish physical and chemical reactions that we find in our environment.

• To develop our pupils’ abilities to communicate in a foreign language, share information and connect virtually.

• To enhance our pupils’ ICT skills and facilities**.**

**Procedure:**

At school (1 hour): teachers introduce the topic and show the web tool: Quizlet.

At home (1 hour): pupils study the introduction to the topic and practice the Quizlet activities to learn the new vocabulary.

At school (1 hour): pupils are divided into groups. The groups are given different tasks.

Firstly, students have to search information and images relative to task assigned. They can use the web for this purpose.

Secondly, they prepare a document or a presentation.

At home (1hour): they revise and study their document or presentation.

At school (1 hour): each group describes their work to the class. A video is made in order to share the activity in the Twinspace.

**Evaluation:**

Self-evaluation: Quizlet flashcards.

Peer-evaluation: team work and information sharing.

Final evaluation: the digital product and Quizlet tests.

04.02.2020

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