



Erasmus+
Programme Your Future



COMPUTATIONAL THINKING - LESSON SCRIPT

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Lesson information:	Subject: GEOGRAPHY AND HISTORY
	Duration: 1 session x 50 minutes
	Grade: 3th grade of secondary school (students born in 2002)
	Age: 14
	Topic: European countries
The curriculum specifications and requirements:	BLOCK I: PEOPLE AND ENVIRONMENT <ul style="list-style-type: none">- Human activities and resources.- Our environment. Geography of Europe
The aims of the lesson:	Pupils will ... <ul style="list-style-type: none">- ... research which are the countries that belong to the EU.
Previous knowledge:	<ul style="list-style-type: none">- European Union components.- Programming with Scratch.
The forms of work:	<ul style="list-style-type: none">- Individual work- Team work
The methods of work:	<ul style="list-style-type: none">- Guided solution of easier problems- Problem splitting in smaller problems- Brainstorms- Graphical analysis
Teaching aids:	<ul style="list-style-type: none">- Computer classroom with access to the Internet (one computer for each student).- Moodle platform, that is a Learning Management System (LMS), used to provide students with links, worksheets, examples, and extra resources.- Teacher computer with projector and interactive board.- Program learning tool, from scratch.com.
The range of using ICT:	<ul style="list-style-type: none">- Web search.- Saving maps from the Internet.- Map edition using computer programs.

The course of lesson:

- **Teacher activities**
- **Pupil activities**
- **The schedule**

1. Introduction (5 min)
Greeting the pupils, checking registry, explaining the aim of the activity, asking what they know about the European Union, and about the countries that belong to it
2. Are you able to locate each country? (5 min)
 - The teacher, with the help of a map on the whiteboard, asks pupils if they can say the names, pointing the countries in the map.
 - The teacher also says the name of the countries, and students must point them in the map.
3. Programing (35 min)
The students will create interactive programs showing the map of the UE with the countries in different colours, without names in it. The program will work as a game:
 - The program will show the name of the countries randomly, and the player must click on the right country.One example that can be taken as a model is available on this link:
<https://scratch.mit.edu/projects/151381403/>
4. Evaluation (5 min).
 - Each team will play with the programs created by other teams.
 - The teacher will revise all of them, to check if their contents are right and if they work properly.

Specific information:

- **Programs**
- **Links**

Scratch programming environment, from M.I.T.:

<https://scratch.mit.edu>

Offline scratch editor can be downloaded at:

<https://scratch.mit.edu/scratch2download/>

Attachments:

- **Worksheets**
 - **Programs**
 - **files necessary**
 - **Etc**
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