





# **Europeana Learning Scenario**

## **Title**

Learning from the past: The transition from the myth to the logos.

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### **Abstract**

The aim of this learning scenario is to investigate the relationship between Mathematics and Philosophy, looking for the main mathematicians who were also philosophers since the ancient Greek history to nowadays. The students have to find information from the Europeana.eu platform, create digital presentations or infographics using Canvas and share it in a Padlet created by the teachers. Also, after that, we should distribute the class in groups of five in order to practice the World Café methodology.

# **Keywords**

Philosophy, Mathematics, History, Communication, Logics, Science.

## **Table of summary**

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Subject	Philosophy and Mathematics.
Topic	Pre-Socratics and the transition from the myth to the logos and its relationship with some mathematical concepts through the logics.
Age of students	15 and 16 years.
Preparation time	3 hours
Teaching time	8-9 lessons
Online teaching	
material	Padlet (web where we can crate boards to present digital content), Youtube,
	Wikipedia, Canvas (website to create inphografics, digital posters and presentations),
	Jclic (a website where you can find mathematical exercises to do online), online
	encyclopedias, etc.
Offline teaching material	









Europeana resources used

The experimental method in the seventeenth century
Bertrand Russell
School of Athens
Euclid and Ptolomeo
Nicolas Copernicus
Descartes
Bertrand Russell

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## Integration into the curriculum

These lessons plans are integrated at the curriculum of Philosophia and Mathematics.

#### Aim of the lesson

To be aware of the importance of the use of logics and the rational thinking in the developing of our human knowledge through the history.

#### **Trends**

STEAM learning, Collaborative learning, visual search and multimedia materials, peer learning, open source learning, cloud based learning.

## 21st century skills

Critical thinking, creativity, communication and cultural awareness.

#### **Activities**

Name of activity		Procedure	Time
	Introduction to the topic	To start, we will watch these videos to explain and introduce the context of the presocratics, Plato and Aristotle and their contribution to the science as a mathematicians and philosophers.  The pre-Socratics (Philosophy class) Plato and Aristotle (Philosophy class) Zeno's paradox (Mathematics class)	1-2 lessons









Name of activity		Procedure	Time
		<u>Donald in Mathmagic Land</u> (Mathematics class)	
		After that, we will explain this period of the History of Philosophy using different resources. Some of them:  Stanford encyclopedia Podcasts (King's college London)  Documentaries: - Genius of ancient world. Socrates.  - Cosmos. Carl Sagan. Chapter VII.  'The backbone of night'.	
	Investigation	Students will have to do the activity  Who is who: 'The school of Athens'  They will search more information about the figures who appear at the Raphael's masterpiece using online resources:  The story behind Raphael's Masterpiece 'The school Of Athens' (Philosophy class)  Mathematics class: Students will have to solve different kinds of exercises and problems related with the Greek philosophers and mathematicians:  Mathematics activities  Finally, we will study in a general way, the contribution of modern philosophers and mathematicians as Descartes and Bertrand Russell.  - The experimental method in the seventeenth century. (Europeana.eu)  - Bertrand Russell. Resource obtained from Europeana.eu and Wikipedia commons.	1 lesson
	Digital presentations	To create digital presentations or/and infographics with Canvas. 1-2 lessons Resources of Europeana.eu: School of Athens Euclid and Ptolomeo Nicolas Copernicus	









Name of activity		Procedure	Time
		<u>Descartes</u> <u>Bertrand Russell</u>	
	Padlet	Sharing the digital presentations of the investigatio of each students group at the digital platform.  What is Padlet?  1 lesson	
	World Café	To distribute the class in groups of 4 or 5 students. In these groups each student will have a role play. There will be two mathematicians and two Philosophers who will have to argue and dialogue about their theories. Previously to the debate, we will have studied the Socratic dialectical method with documentaries (Genius of the ancient world. Socrates) and Information from the textbook. What is a World Café session?  2 lessons	

## **Assessment**

Final test with answers multiple choice.

Rubric to evaluate a digital presentation.

Peer assessment to evaluate the debate between students in cooperative groups using a rubric.

Rubric to evaluate teaching.









*********	AFTER IMPLEMENTATION	**********
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## Student feedback

Add here the method with which your students will be able to give you feedback and discuss the lesson.

# Teacher's remarks

Add here your comments and evaluation **AFTER** the implementation of this lesson. You can always use a rubric for self-assessment.

**Annex** 

