

Europeana Learning Scenario

Title

Isaac Newton

Author(s)

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Abstract

Students researched about one of the most famous scientists ever – Isaac Newton. Because of his connection to mathematics, we decided to dedicate some time during the math lessons to get to know his biography better. Students used [Europeana](#) and other resources to find more about the work and life of the famous scholar. They made a presentation that contained the most interesting facts of his life. With this lesson, students were motivated to learn mathematics and science.

Keywords

Mathematics, famous scientists, biography, motivation, science.

Table of summary

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Subject	Mathematics
Topic	Interesting mathematics
Age of students	15
Preparation time	2h
Teaching time	45min
Online teaching material	Britannica - Isaac Newton's biography
Offline teaching material	-
Europeana resources used	Europeana blog – Isaac Newton

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Integration into the curriculum

This lesson is connected to the subject of mathematics. It was used as an introduction to a new topic to motivate students.

Aim of the lesson

This lesson raises motivation and illustrates how important mathematics is in daily life.

Outcome of the lesson

Students will learn:

- about the life of Isaac Newton
- about the work of Isaac Newton

Trends

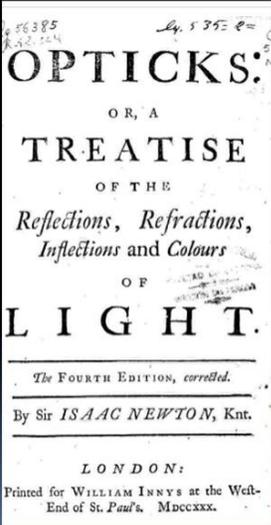
Project based learning and creativity.

21st century skills

With this LS, students develop critical thinking by connecting facts about science in the past to science nowadays.

Activities

Name of activity	Procedure	Time
Introduction	<p>The teacher explains the steps and activities.</p> <ul style="list-style-type: none"> • The main activity is to explore the life of Isaac Newton using the Europeana resource. • The next activity is to make a presentation or poster about Isaac Newton's life. • Both the activities promote history of mathematics and work of famous mathematicians in order to raise motivation for students to learn mathematics. 	5 min
Main activity	<ul style="list-style-type: none"> • Students explore the life and works of Isaac Newton, using relevant resources from Europeana • Students present their findings. In the picture below, there is an excerpt from the student's presentation who talked about the life and work of Isaac Newton. 	20 min 15 min

Name of activity	Procedure	Time
	<p style="text-align: center;">Isak Njutn</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p style="text-align: center;">Source: https://sh.wikipedia.org/wiki/Isaac_Newton</p>	
Conclusion	Students summarize their work.	5 min

Assessment

Students have to make a presentation about the famous mathematician and scientist.

***** AFTER IMPLEMENTATION *****

Student feedback

After this lesson, during discussions, students concluded that history of mathematics is great motivation. They had heard about Isaac Newton, but they were not familiar with the details of his personal and professional life. There are several lessons that they have learned.

Teacher's remarks

Increased motivation made mathematical lessons more interesting. Students liked this approach and Europeana proved to be a useful resource for supporting mathematical lessons with interesting historical facts. This is a nice way to connect humanities with science subjects.

About the Europeana DSI-4 project

[Europeana](#) is Europe's digital platform for cultural heritage, providing free online access to over 53 million digitised items drawn from Europe's museums, archives, libraries and galleries. The Europeana DSI-4 project continues the work of the previous three Europeana Digital Service Infrastructures (DSIs). It is the fourth iteration with a proven record of accomplishment in creating access, interoperability, visibility and use of European cultural heritage in the five target markets outlined: European Citizens, Education, Research, Creative Industries and Cultural Heritage Institutions.

[European Schoolnet](#) (EUN) is the network of 34 European Ministries of Education, based in Brussels. As a not-for-profit organisation, EUN aims to bring innovation in teaching and learning to its key stakeholders: Ministries of Education, schools, teachers, researchers, and industry partners. European Schoolnet's task in the Europeana DSI-4 project is to continue and expand the Europeana Education Community.

