

Europeana Learning Scenario

Title

Herbal Medicine in Your Region and in Europe

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Abstract

Students will compare 5 plants used in their region for medicinal purposes. They will write their taxonomy and compare them with the ones at <https://www.europeana.eu/>

Keywords

Plants, Herbal medicine, Herbal medicine in Europe

Table of summary

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Subject	Biology, pharmacy, chemistry
Topic	Herbal medicine in your region and in Europe
Age of students	15-16
Preparation time	60 minutes (the teacher must explore the online platform www.europeana.eu prior to the activity and prepare interactive presentation for introduction)
Teaching time	Two 45-minute lessons
Online teaching material	Google Documents (https://www.google.com/docs/about/), Virtual clouds (Google drive, OneDrive, Dropbox), Spreadsheets, Word processors, Presentation tools, Padlet
Offline teaching material	Color pencils, scissors, glue, paper
Europeana resources used	<ul style="list-style-type: none"> • Artemisia annua • Aloe vera • Rosmarinus officinalis • Berberis aquifolium • Humulus lupulus

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Integration into the curriculum

In the curriculum of biology, among other things, two topics for second-year high school students are medicinal plants of Croatia, so this lesson fits into our national curriculum.

Aim of the lesson

Students develop their writing and research skills; they create digital mind maps. Students also improve their media literacy and learn how to use collaboration tools. Developing critical thinking about this topic.

Outcome of the lesson

- know how to place your country in floral areas
- distinguish between synanthropic and cosmopolitan species
- list the species important for local vegetation
- list the plants used for medicinal purposes
- understand the meaning of plants in everyday life

Trends

Collaborative Learning: group work

STEM Learning

21st century skills

1. Ways of thinking (students will research and compare medicinal herbs)
2. Ways of working (students will work in groups and distribute the tasks among)
3. Tools of working (student will use ICT tools to organize)
4. Living in the world (conserve biodiversity)

Activities

Name of activity	Procedure	Time
Introduction	In the previous lesson, students were tasked to find 5 plant species used for medical purposes locally. Talk to your grandparents about whether or not these species were used in their youth when medicines were not available.	10 min
Processing	Students watch a presentation about the local flora and plants that are dangerous or beneficial to human health. The presentation is uploaded on Dropbox, Google drive or OneDrive and shared with students.	35 min

Name of activity	Procedure	Time
Working in a group	<p>Students are divided into 5 groups. Each group receives one plant from the Europeana Collection page. They need to study to what kind of floral areas (Pontic, Boreal, Arctic-Alpine) the plant belongs to, and for what medical purposes it is used. Students draw (sketch) European plant species into a notebook.</p> <p>After that, they have to find a plant that is used instead for the same purpose in their region. Students use mobile application that helps identify plants through images (Plantnet, Picturethis, Seek). They make a research on identified plants and their medical purposes.</p>	20 min
Conclusions and Presentations	After research, each group must present its conclusion on Padlet.	25 min

Assessment

I plan to value their work in a Padlet but only as a learning value, so they know what they were wrong about. Values are formative.

Components	Levels of achievement criteria		
	3 points	2 points	1 point
Quality posts	<ul style="list-style-type: none"> the message is completely clear and visible the task was performed in a completely correct order and research process content is age-appropriate 	<ul style="list-style-type: none"> the message exists, but it takes time to notice it partly content with age pictures and text are not thematically monitored the survey was partially conducted in order 	<ul style="list-style-type: none"> no message the content is thematically and content-free there is no proper flow of research
Visual organization	<ul style="list-style-type: none"> the data is clearly presented for interpretation everything is made in service of the theme attractive appearance and dynamics 	<ul style="list-style-type: none"> only some data was collected only some data was processed the appearance is of interest to some students 	<ul style="list-style-type: none"> the data is not collected / not displayed appropriately images are poorly selected text unreadable and disorganized
Readiness for presentation	<ul style="list-style-type: none"> the student is completely in control of the matter 	<ul style="list-style-type: none"> the student is unsure of presentation, using written text 	<ul style="list-style-type: none"> the student did not prepare the presentation

Students will value themselves according to this principle:

Elements for assessment	Yes	Partially	No
Did we complete the task successfully?			
Did each group member make the maximum contribution to completing the task?			
Did the assignment require the participation of all group members?			
Did the group members respect each other's opinions?			
Are you satisfied with your personal contribution to the task?			

Student feedback

Lino.it wall remarks, exit slips

Teacher's remarks

The lesson plan was created during Europeana MOOC has not been taught yet.

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.

Annex

- <https://archive.org/>
- <https://eunis.eea.europa.eu/index.jsp>
- [European red list of medicinal plants - PDF](#)
- <https://bhma.info/>
- https://en.wikipedia.org/wiki/Category:Medicinal_plants_of_Europe