



Kemija Online

Arjana Blažić
@abfromz

Struktura izlaganja

eTwinning zajednica

MOOC

Autorska prava

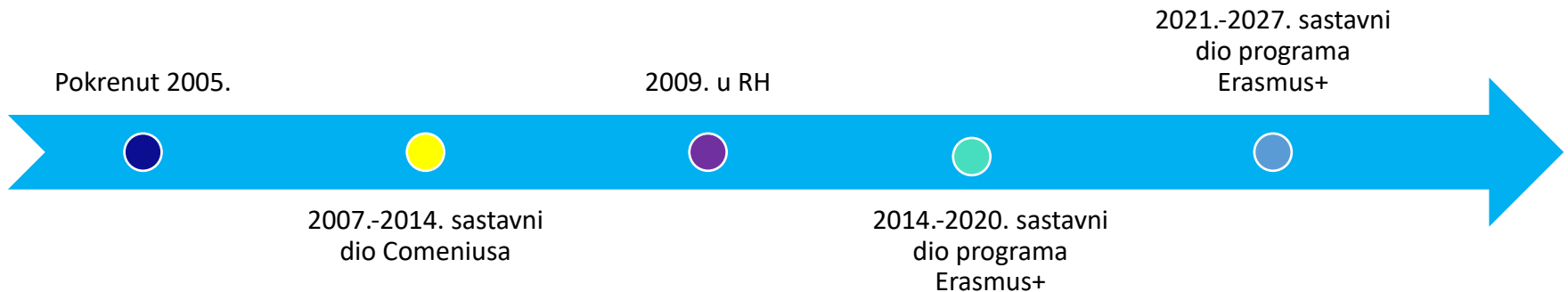
Digitalni izvori za
poučavanje Kemije

Digitalni alati: Spiral

Što je eTwinning?

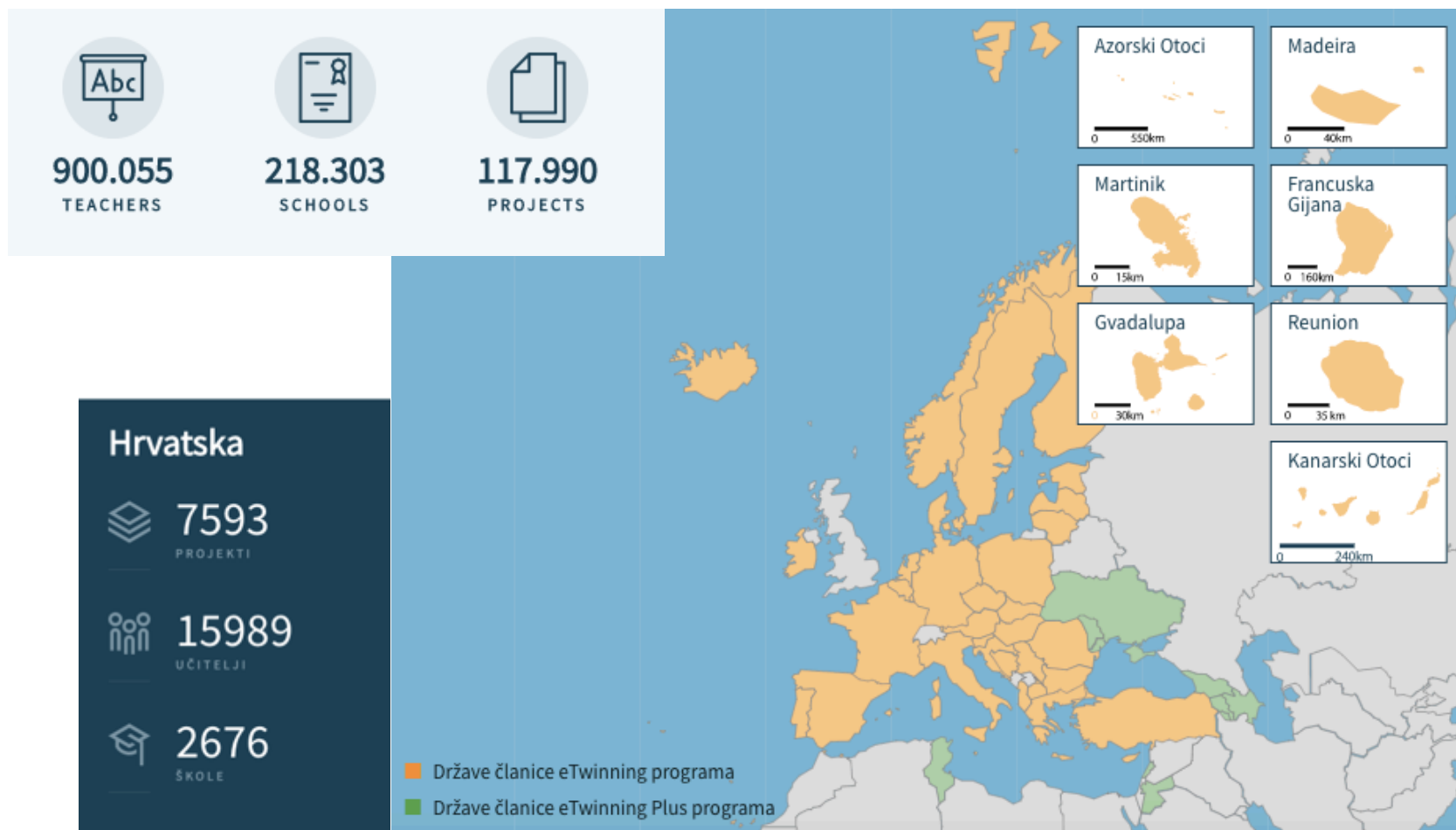


zajednica za suradnju odgojno-obrazovnih institucija



European Schoolnet

eTwinning zajednica



www.etwinning.hr



eTwinning

AGENCIJA ZA
MOBILNOST I
PROGRAME EU

hr / en

ETWINNING AMBASADORI USAVRŠAVANJA VIRTUALNI PROJEKTI KVALITETA/NAGRADE



eTwinning

Nacionalna služba za podršku

< >

Što je eTwinning

Natječaji

Obavijesti

Informativne i promotivne aktivnosti



10. GODINA

Erasmus+
Najveći program Europske unije za obrazovanje, osposobljavanje, mlade i sport

Publikacije

Za medije

Arhiva natječaja

Zašto eTwinning?



Zašto eTwinning?

Podrška

Stručno
usavršavanje

Suradnja s
kolegama

Priznanja i
nagrade

Baza Erasmus+
projekata





Projektna
nastava

Aktivna uloga
učenika

Međunarodna
suradnja

Multikulturalno
autentično
okruženje

Dodana
europska
vrijednost

Aktivna
uporaba IKT-a

Sigurno okruženje

eTwinning eko-sistem

Nakon registracije:



PORTAL

Opće informacije

etwinning.net

Nakon odobrenja:



eTWINNING LIVE

za učitelje
učenje i
komunikacija



TWinspace

za učenike
(i učitelje) u
eTwinning projektima

eTwinning Portal

 Erasmus+ 

HRVATSKI 

LOGIRAJTE SE / LI PRIJAVITE



[Prednosti](#) [Počnite](#) [Zajednica](#) [Vijesti](#) [Pronađite nadahnuće](#) [eTwinning Plus](#) 

Odgovor COVID-19: Pripremate li se za povratak u školu, ali COVID-19 i dalje utječe na vaš rad? Pogledajte naše [internetske događaje](#) i [mogućnosti profesionalnog razvoja](#). [Pratite na eTwinning platformi](#) i pridružite se grupi „[eTwinning at home and... back to school](#)“.

 Erasmus+

eTwinning je Zajednica škola u Europi

eTwinning nudi platformu za odgojno – obrazovne djelatnike (učitelje, ravnatelje, knjižničare, itd), koji rade u školama i dječjim vrtićima europskih država sudionica eTwinninga. Putem ove platforme članovi mogu komunicirati, surađivati, razvijati projekte, razmjenjivati znanja i iskustva te postati dijelom najzanimljivije obrazovne zajednice u Europi.

[Pridružite se eTwinning zajednici](#) >

PROJEKTI KOMPLETI

Pretražite po ključnim riječima

All difficulty levels

Kemija

Sve ključne kompetencije

Traži 🔍

Predstavljanje partnera

Orijentacija

Komunikacija

Suradnja

Procjena i ocjena

Nastavak

Kemija, tradicija i moda tkanina i vlakana

RAZINA ZAHTEJIVOSTI : SREDNJA

★ RAZINA : OD 15 DO 19

KLJUČNE KOMPETENCIJE : DIGITALNA / JEZICI / KULTURNA SVIJEST I IZRAŽAVANJE / MATEMATIKA / PRIRODNE ZNANOSTI / TEHNOLOGIJA I INŽENJERSTVO / OSOBNA / SOCIJALNA I UČENJE / PODUZETNIŠTVO

TEMATSKA PODRUČJA : BIOLOGIJA / KEMIJA / STRANI JEZICI

➤ PREUZMI TE PRIMJER PROJEKTA U PDF FORMATU



PROJEKTI KOMPLETI

Kemija, tradicija i moda tkanina i vlakana

Opis projekta

Kad kupujemo odjeću posvećujemo li dovoljno pozornosti sastavu odjeće ili mjestu proizvodnje? Možda ne! Ovak će vam projektni komplet pomoći u promišljanju učinka koji imaju tvornice vlakana i tkanina.

Obuhvaćajući različita predmetna područja strukovnog obrazovanja i osposobljavanja (biotehnologija, kemijski laboratorij, modni dizajner, industrijske tkanine, ekonomija, poljoprivredni tehničar, trgovina i marketing) ovaj interdisciplinarni komplet razmatra tri teme:

1. Kemijski sastav i svojstva različitih tkanina.
2. Tradicije povezane s tekstilnim tvornicama u Europi.
3. Društveni, gospodarski i ekološki učinak tekstilne industrije – multinacionalne tvrtke, globalizacija, zagađenje i pravedna trgovina.

Pedagoški ciljevi

1. Razumjeti svojstva tkanina te razlikovati prirodne od umjetnih tkanina.
2. Razumjeti vrijednost europskih tradicija vezanih uz vlakna i tkanine.

3. Razvijati svijest učenika o odgovornom izboru kod kupnje odjeće.
4. Prepoznati posljedice globalizacije tekstilne industrije te uvjeta proizvodnje tkanina.

- ## 5. Razviti IKT vještine

Kako bi učenici predstavili temu nastavnici provode tri zadatka:

- posljedice postojeće tekstilne industrije na okoliš i radnike
- evolucija tekstilne mode vezano uz kompjutiznu kupnju (brza moda)
- razlika u tkaninama i kvaliteti tekstilnih proizvoda.

1. aktivnost

1. aktivnost

1. aktivnosti
na početku akcije

- [illegible]

Primer alata: Google Form

2. aktivnost

[illegible]

2. aktivnost

3. aktivnost
Vezano uz prethodnu aktivnost svaki partner snima video, učenika iz svake partnerske škole sažima njihove zaključke.

Primjer alata: iMovie, Movie Maker, **Padlet**

Razina zahtjevnosti

Srednja

Ključne kompetencije

Digitalna, Jezici, Kulturna /
Matematika, prirodne zna
inženjerstvo, Osobna, so
Poduzetništvo

Predmeti

Biologija, Kemija, Str

Razina

15-19

Procjena i ocjena

EVALUACI

EVALUATION
continued

Procjena učenika

1. Srednja škola
2. Što misliš o projektu?
3. Iz kojih su zadatak najviše naučio/a?
4. Iz kojih si zadataka najviše ispoljio/la svoje sposobnosti?
5. Koju račununalnu/vremenu potporu nisi otkrio/la?
6. Nakon završetka projekta naučio/a si nešto novo o prirodnim tkaninama?
7. Misliš li da ćeš od sada nastojati kupiti odjeću izrađenu u Europi?
8. Misliš li da ćeš od sada nastojati kupiti odjeću izrađenu od prirodnih tkanina?
9. Misliš li da ćeš od sada nastojati kupiti odjeću izrađenu od prirodnih tkanina?
10. Predloži kako se projekt može poboljšati.

10. Predložite:

1. Ime i prezime
2. Je li ovo tvoj prvi eTwinning projekt?
3. Smatraš li da je naš projekt inovativan s pedagoškog stajališta?
4. Jesi li zadovoljan/a sa komunikacijom i razmjenom među partnerima?
5. Kojem alatu za komunikaciju daješ prednost?
6. Jesi li zadovoljan/a sa suradnjom i razmjenom među partnerima?
7. Koji je zadatak za tebe bio najzanimljiviji?
8. Kojim zadatkom bolje odgovara tvom kurikulumu?
9. Koji zadatak bolje odgovara tvom konceptu projekta u vezi s vremenom, zadacima, alatima...?
10. S kojim si se tehnikama susreo/la kod provedbe projekta u vezi s vremenom, zadacima, alatima...?
11. Koji računalni mrežni alat nisi oprijeko poznao/la?
12. Kako bi opisao/la svoj projekt na podstranici Uprnici.

Rezultati upitnika prikazati će se na TwinSpaceu na podstranici Upitnici.

eTwinning Live



Podrška



KORISNICI

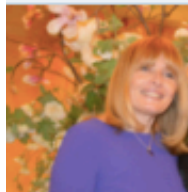
DOGAĐANJA

PROJEKTI

GRUPE

PARTNERSKI FORUMI

STRUČNA USAVRŠAVANJA



Arjana Blazic

IX. gimnazija

Uredite



MOJA DOGAĐANJA



MOJI PROJEKTI



MOJE GRUPE

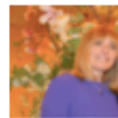


Web alati u nastavi i eTwinning projektima



14.05.2018

Nacionalna služba za podršku eTwinningu objavila je e-vodič pod nazivom Web alati u nastavi i eTwinning projektima. U vodiču je...







Kreirajte vijest







Projektni partneri



SEARCH [Need an extended search?](#)

 eTwinning Projects: 4-11 ✦ 4358 thread(s) ✦ 21060 message(s)	 eTwinning Projects: 12-15 ✦ 3285 thread(s) ✦ 12713 message(s)
 eTwinning Projects: 16-19 ✦ 1909 thread(s) ✦ 6938 message(s)	 eTwinning Projects: General ✦ 758 thread(s) ✦ 1808 message(s)

 eTwinning Plus ✦ 627 thread(s) ✦ 2789 message(s)	 Erasmus+ Partnerships: 4-11 ✦ 2384 thread(s) ✦ 15165 message(s)
 Erasmus+ Partnerships: 12-15 ✦ 2370 thread(s) ✦ 13026 message(s)	 Erasmus+ Partnerships: 16-19 ✦ 2580 thread(s) ✦ 15456 message(s)

projekti

Pages

> Young scientists Part 1 – Air Video Conference - Austria

Young scientists -AIR- Video conference at 19.11.2014. Leader- Bulgaria

AIR EXPERIMENTS FROM CATALONIA

Video experiments related to AIR led by Norway

Video experiments related to AIR led by Latvia

Drawings and posters created by the students - Save the Air clean

Young scientists Part 1 – Air Video Conference - Austria

AIR EXPERIMENTS ON LINE FROM NAVÀS , CATALONIA, TO EUROPE.

2. Then take the glass and push it from the top of the jar to the bottom (be careful the ping-pong ball has to be inside the glass when you push it).



3. Observe, Is there water in the glass?
4. Now repeat the same procedure, but before to sink the glass put the tissues inside.



Explain the experiment and your results



8 of 12

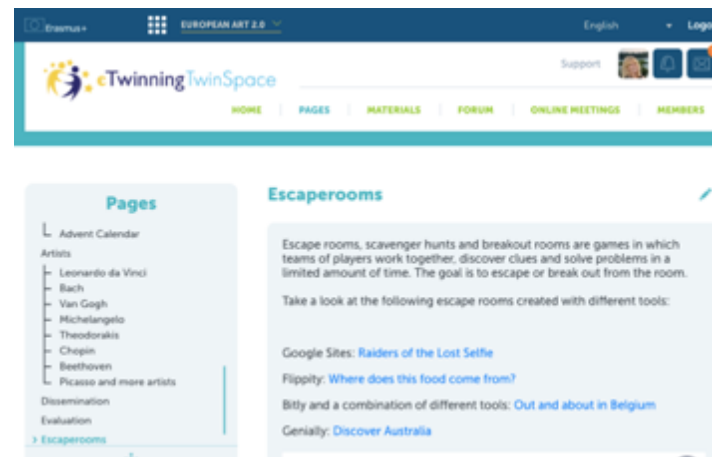
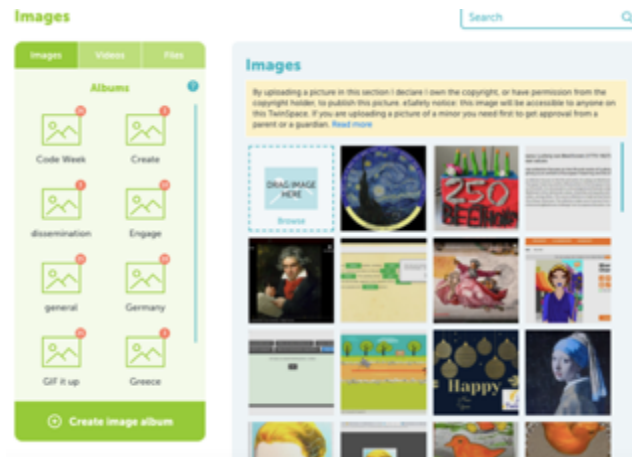
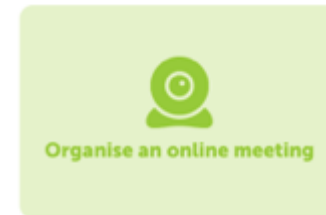
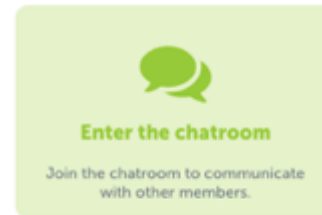


TwinSpace

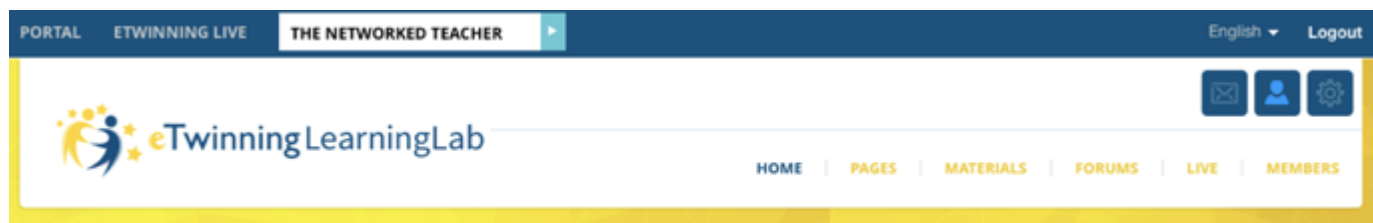
Virtualni dom projekta



Online meetings



STRUČNO USAVRŠAVANJE: ONLINE



English as a



A group for all eTwinning teachers who teach English as a second language... or maybe you want to touch up your own English as an eTwinning teacher? Because of its proliferation, English is an often neglected school subject in many European countries. This group is about changing that, and giving English teachers a space for inspiration, collaboration, professional development and modernising ESL education through the use of ICT.

Napustite grupu

Mrežni članovi

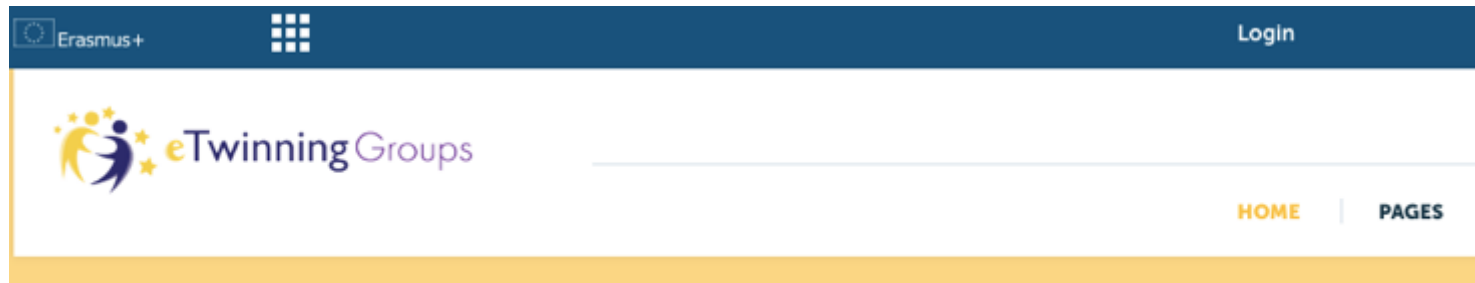


Seminari i konferencije



Grupa eTwinning HR_ambasadori

bit.ly/hretwamb



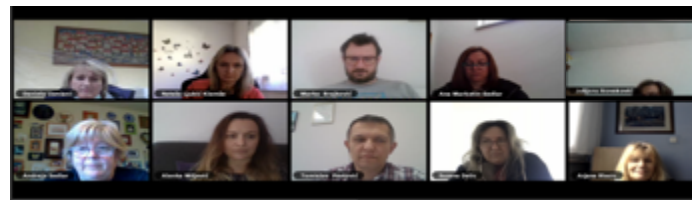
eTwinning HR_ambasadori



U grupi su svim eTwinnerima dostupne upute za korištenje digitalnih platformi, radni materijali te web alati koji se mogu koristiti u nastavi. Nadalje, u grupi su dostupni projektni i video materijali kao dodatna podrška u odgojno-obrazovnom procesu u provođenju nastave na daljinu kao i kronologija događanja prilikom provođenja nastave na daljinu u Hrvatskoj od 16. ožujka 2020. godine.

Grupa eTwinning HR_ ambasadori

bit.ly/hretwamb



eTwinning priznanja

Nacionalna oznaka kvalitete

Europska oznaka kvalitete

eTwinning nagrade



Nacionalna
oznaka kvalitete



Europska oznaka
kvalitete



eTwinningove
nagrade

eTwinning priznanja

COMET nagrada

- za najbolje eTwinning projekte u protekloj školskoj godini
- natječaj raspisuje AMPEU
- 5 kategorija



Stručna usavršavanja:

MOOC

Massive Open Online Course


European Schoolnet Academy

www.europeanschoolnetacademy.eu



Aerospace
Aerospace in Class

Starts: Feb 15, 2021




CodeWeek
AI Basics for Schools

Starts: Mar 8, 2021



Europeana
Digital Education with Cultural Heritage


Starts: Mar 15, 2021



LEARN MORE

BRITEC
A Roadmap to Citizen Science Education

Starts: Mar 22, 2021



ITEC
Future Classroom Scenarios



inGenious
Innovative Practices for Engaging STEM Teaching



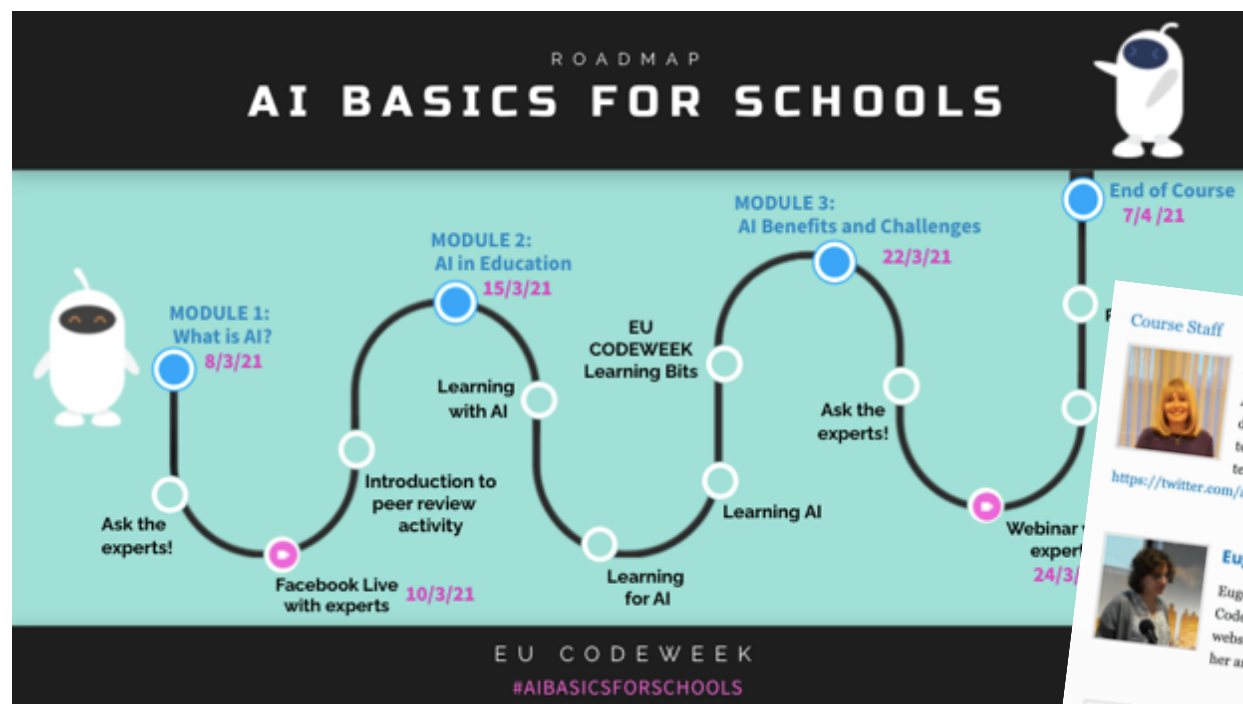
DigitalSkills
How to Teach Computing: An Introduction to Concepts, Tools and Resources for Secondary Teachers



KeyCoNet
Competences for 21st Century Schools

Stručna usavršavanja: AI BASICS FOR SCHOOLS MOOC

www.europeanschoolnetacademy.eu



Course Staff

Arjana Blazic - course coordinator

Arjana Blazic is language arts teacher, education technology consultant and course designer. She is an external expert at European Schoolnet. Her interests focus on technology enhanced teaching and learning and the impact of digital technologies on teacher professional development. You can get in touch with her on Twitter: <https://twitter.com/abfromz>

Eugenia Casariego Artola - course coordinator

Eugenia is working at European Schoolnet, contributing to the educational aspects of EU Code Week: supporting the development of training materials for schools, assisting in the website of resources, and helping in the development of the Learning Bits. You can follow her and get in touch here: https://twitter.com/eugenia_eun

Tommaso Dalla Vecchia - course moderator

At European Schoolnet since 2012, he has been working in lots of different projects and initiatives. He has been more and more engaged in awareness raising, education and training projects, especially in the area of digital skills and coding. Currently he proudly supports the scale-up of EU Code Week. You can follow him and get in touch here: https://twitter.com/tommaso_eun

DIJELJENJE MATERIJALA AUTORSKA PRAVA



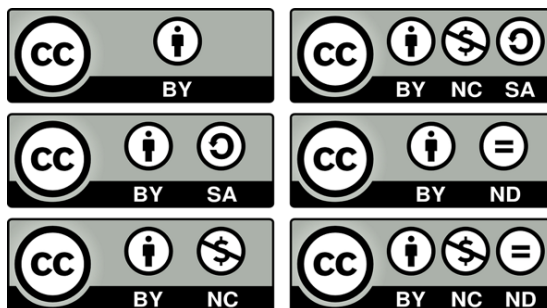
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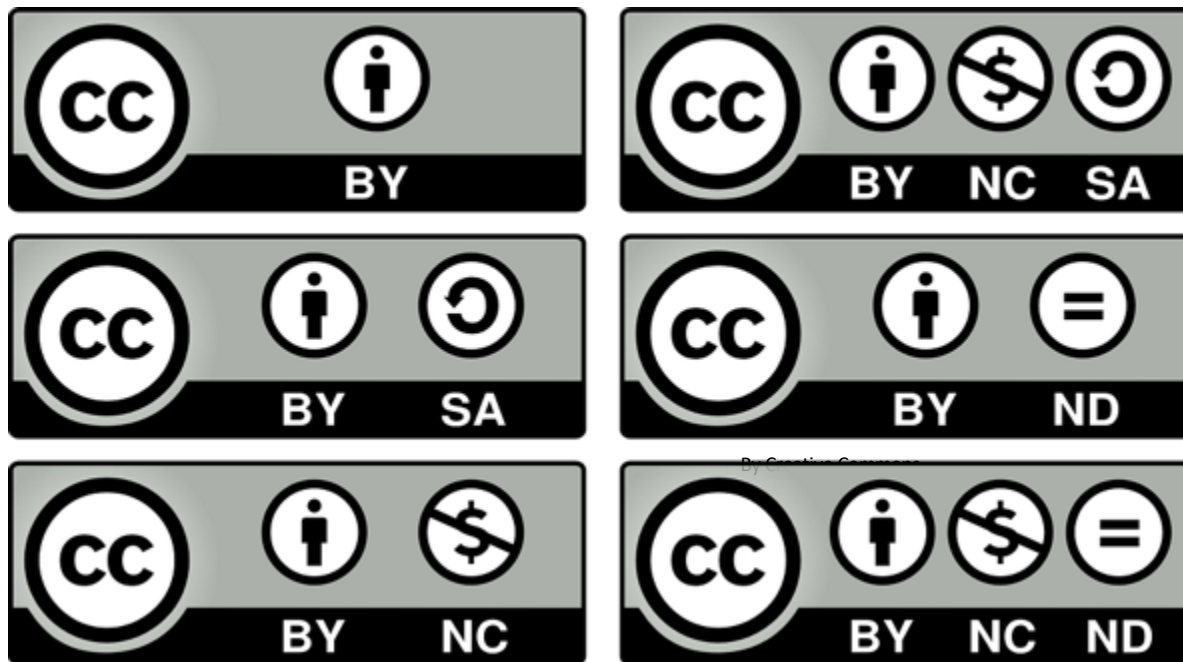


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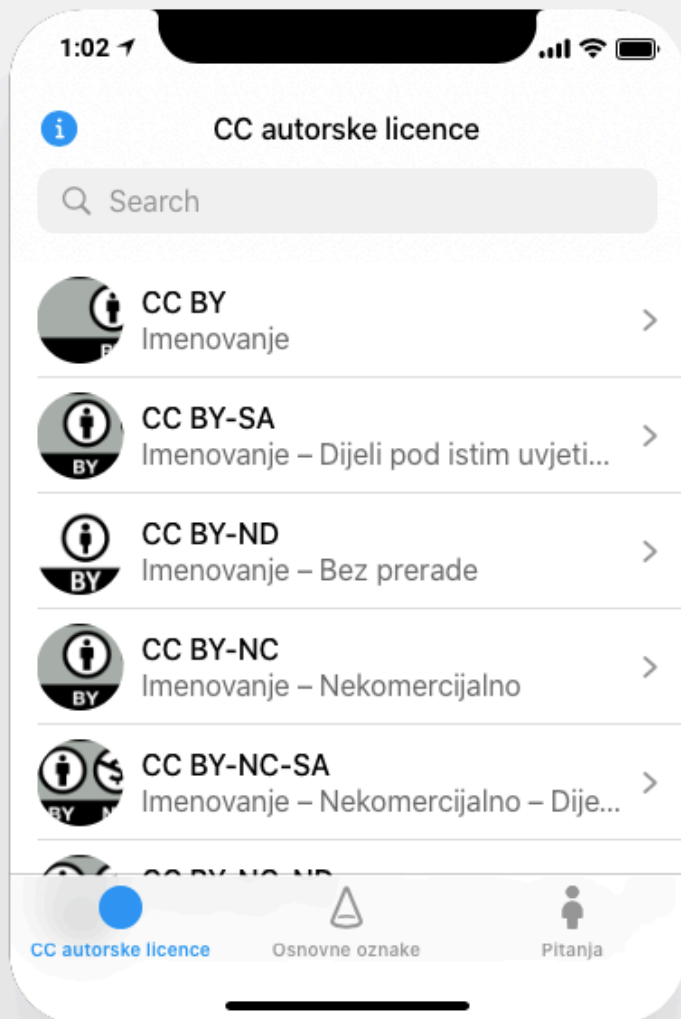
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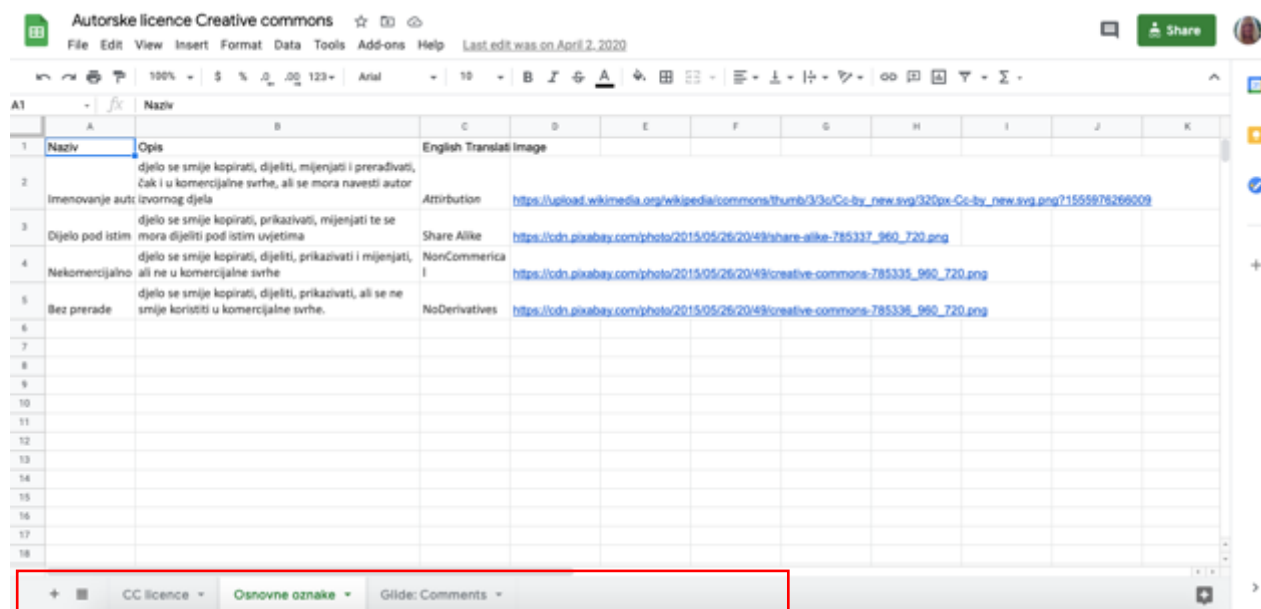
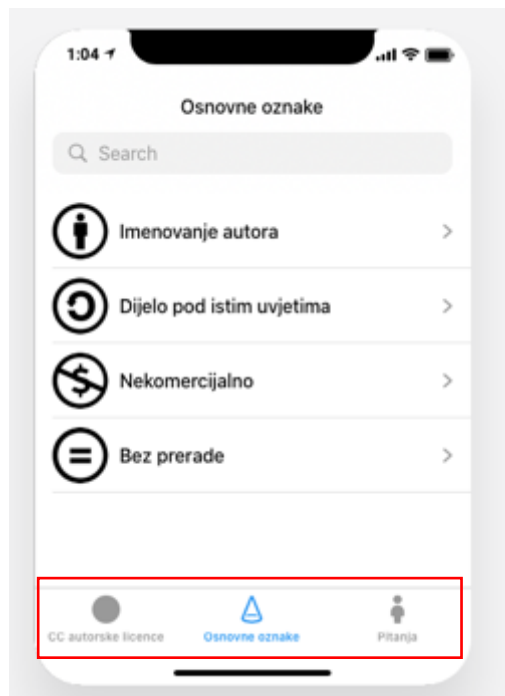
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9					

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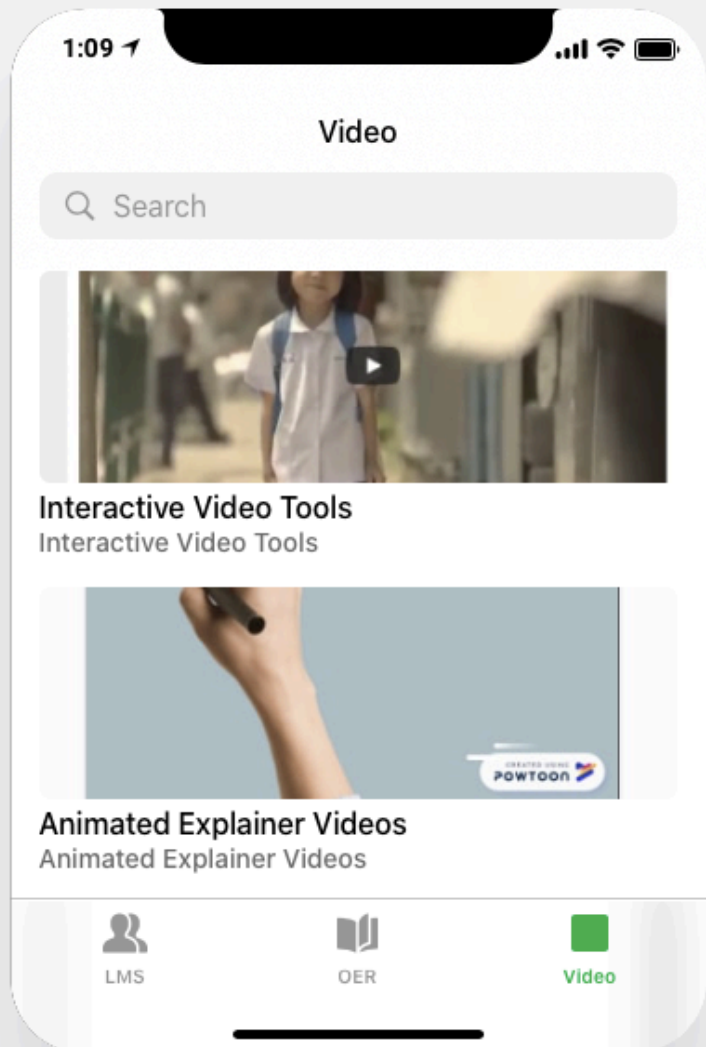
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Flipped Classroom Tools

by Arjana Blazic

Learning Management Systems,
Open Education Resources and
Video Tools for Flipped Classroom.

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Digitalni alati i materijali za kemiju

TEACHERSFIRST

www.teachersfirst.com

429 chemistry results | sort by: Most Recent First | PREVIOUS 20-40 of 429 NEXT
SHARE return to subject listing

UL Xplorlabs - Underwriters Laboratories

MORE GRADES 7 TO 12
Xplorlabs provides free STEM learning activities for middle school educators through exploration modules and hands-on learning all correlated to Next Generation Science Standards....[more](#)

Expil - Expil, Inc.

MORE GRADES 6 TO 12
Expil is a free resource for learning about math and science topics creatively through video and written explanations provided by different expert contributors. Math content begins....[more](#)

Science News for Students - Society for Science and the Public

MORE GRADES 4 TO 8
Science News for Students publishes daily science articles aimed at readers 9-14 years old. Written by science experts, this site features a variety of topics geared toward preteens....[more](#)

Earth Science Resources - TeachersFirst

MORE GRADES K TO 12
Explore this editor's choice collection of resources related to earth science. This is a perfect list to share during Earth Science Week in October, or anytime throughout the year....[more](#)

TEACHERSFIRST EXCLUSIVE

OK Go Sandbox - University of St Thomas and Dr. AnnMarie Thomas

MORE GRADES 6 TO 12
Capture the interest of your most reluctant students with these STEAM (Science, Technology, Engineering, Art, Math) projects presented through music videos and guided inquiry

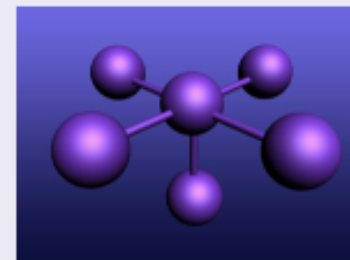
TeachersFirst's Atoms - Science Resources

0

Other TeachersFirst Special Topics Collections

This curated list of resources will help you research information about atoms. Read the descriptions to find out whether a site sounds right for what you want to know. Some sites may be more challenging reading, while others may offer solid basic information. Be sure to try several sources. There are resources for elementary, middle, and high school levels.

View all of our resources tagged atoms [here](#).



TeachersFirst's Chemical Reactions - Science Resources

1

Other TeachersFirst Special Topics Collections

Find resources related to chemical reactions in this collection of science resources. The collection includes interactives, content sites, and lesson ideas. Read the descriptions to find out whether a site sounds right for what you want to know. Some sites may be more challenging reading, while others may offer solid basic information. Be sure to try several sources.

If you cannot find what you need here, you may want to try searching on TeachersFirst for specific keywords.

Explore our entire list of [chemical related resources](#).



Digitalni alati i materijali za kemiju

TEACHERSFIRST

www.teachersfirst.com

goREACT - Museum of Science and Industry Chicago

LESS GRADES 5 TO 12

[+ SHARE](#) [> LINK](#) 0 FAVORITES 0 COMMENTS

goREACT offers an addicting interactive that combines elements from the Periodic Table to create virtual reactions. Click any element and drag it to the Reaction Area. Add another element...[less](#)

goREACT offers an addicting interactive that combines elements from the Periodic Table to create virtual reactions. Click any element and drag it to the Reaction Area. Add another element (or a few) and watch what happens! The reactor offers advice for elements to add or you can choose on your own. Click on an element and a small screen provides a short description and its general uses. Use icons on the top right-hand side of the screen to view standard, atomic, ionic, or Lewis Dot versions of the periodic table.

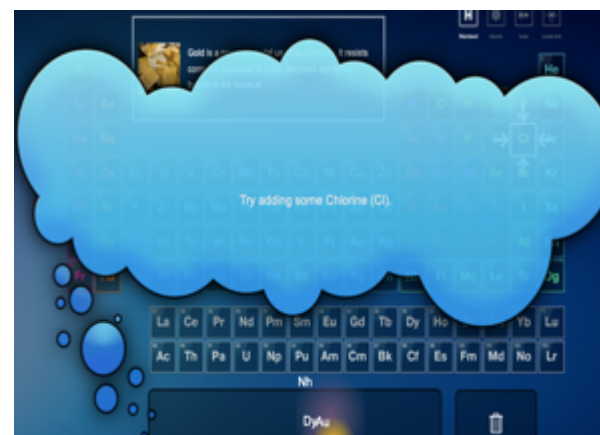
tag(s): [chemicals](#) (47), [elements](#) (33), [periodic table](#) (52)

IN THE CLASSROOM

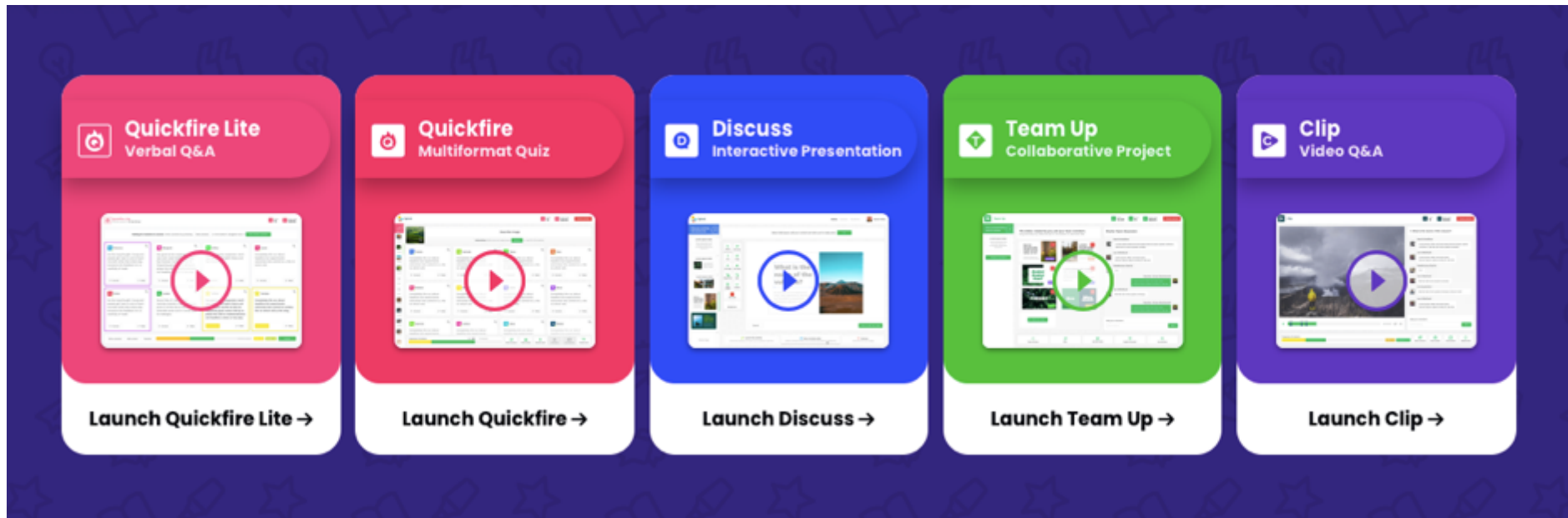
goREACT is perfect for use on your interactive whiteboard or projector. Experiment with different combinations of elements and predict what will happen before creating each combination. Allow students to explore this site independently and share findings with the class. Have students create an annotated image including text boxes and related links using a tool such as Thinglink, [reviewed here](#), demonstrating chemical reactions. Post this link on your class website for students to experiment with at home.

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