



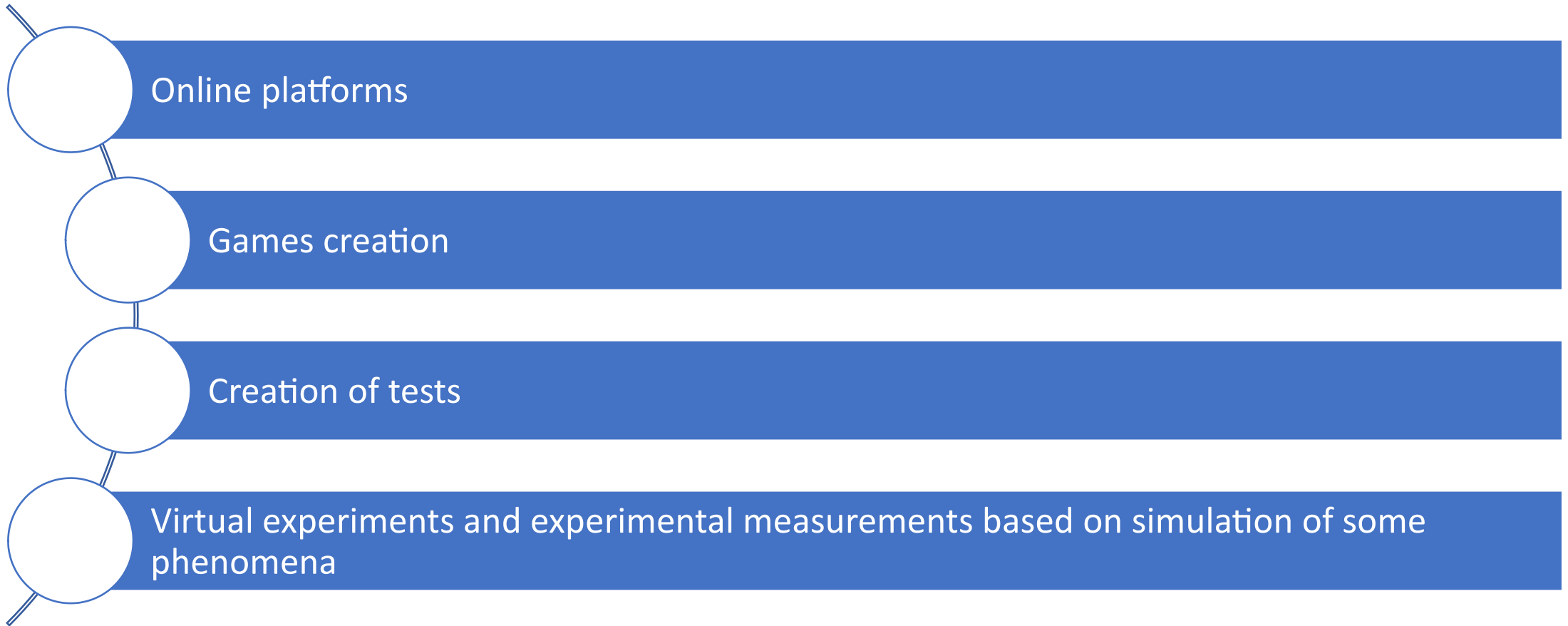
ONLINE INSTRUMENTS AND USEFUL SITES WITH CHEMISTRY AND PHYSICS RESOURCES

Prof. Anca Niculae

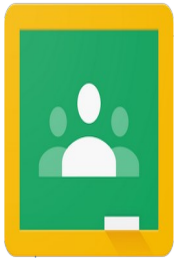
Prof. Smaranda Căpățînă

Colegiul Național "Preparandia – Dimitrie Țichindeal" Arad - România

Online instruments and sites with chemistry and physics resources



Platforme online



Google Classroom



Zoom App



Microsoft Teams



Easyclass



Edmodo



Kinderpedia,
Digitaliada, myKoolio,
Kidibot, Ask

Google Classroom

It is one of the platforms recommended by the Ministry of National Education

It offers the possibility to both teachers and students to upload materials and post various announcements

It offers the possibility for the teachers to assess and give marks to the students

It offers the Google Meet extension for online classes

Google Classroom- chimie

Google Classroom



De evaluat Calendar

Chimie IX A
2020/2021

Chimie IX B
2020/2021

Chimie IX C
2020/2021

Chimie IX D
2020/2021

Chimie XI C
2020/2021

Chimie X A
2020/2021

Chimie X B
2020/2021

Chimie X C
2020/2021

De predat mâine
23:59 - Probleme - alcani

Chimie X D
2020/2021

Chimie XII B
2020/2021

Chimie VII C
2020/2021

Termen limită: joi
23:59 - Poluarea și metode de diminuare a ei



Chimie VIII A
2020/2021

Chimie VIII B
2020/2021



Chimie VIII C
2020/2021

Google Classroom- fizică

Pregatire bacalaureat
2020-2021



Fizica 12B
an 2020-2021





Fizica 10D
an 2020-2021



De predat mâine
Temă-grafic 1



Fizica 10C
an 2020-2021





Fizica 9D
an 2020-2021



Fizica 9C
an 2020-2021

De predat mâine
Tema-forța normală de apăsare





Fizica 8A
an 2020-2021


Termen limită: joi
Tema-tipurile de electrizare





Fizica 7D
an 2020-2021



Fizica 7C
an 2020-2021



Fizica 7B
an 2020-2021



Fizica 7A
an 2020-2021



+ Creați

📺 Meet 📅 Calendar Google 📁 Dosar de curs în Dri

Toate subiectele

Subiecte si bareme

Curent electric

Termodinamica

Mecanica



Sinteza -formule de BAC

Data postării: 2 oct.

Subiecte si bareme



Modele Bac 2021

Data postării: 4 nov.



Teste de antrenament 2020

Data postării: 2 oct.



Raspunsuri teste de antrenament 2020

Data postării: 2 oct.

Curent electric



Curent electric-Teste de pregătire 2009

Data postării: 16 nov.



Gruparea generatoarelor in paralel

Data postării: 2 nov.



Gruparea generatoarelor in serie

Data postării: 2 nov.



Google
Classroom-
fizică

+ Creați

📅 Calendar Google 📁 Dosar de curs în Drive

Toate subiectele

Fenomene electrice ...

Fenomene termice



Manualul -Editura Art

Ultima editare: 30 oct.



Manual-Editura Litera

Ultima editare: 26 oct.

Fenomene electrice si magnetice



Tema-tipurile de electrizare

Termen limită: Mâine



Tema 8 Electrizarea și sarcina electrică

Termen limită: 25 nov.

Fenomene termice



Rezolvare test-fenomene termice

Data postării: 20 nov.

Google Meet 9D-FIZICĂ

The screenshot displays a Google Meet session with the following details:

- Browser Window:** The address bar shows the URL `meet.google.com/qvu-ucug-uwm?authuser=1`. The page title is "Tema -miscare rectilinie uniform var".
- Meeting Header:** The time is 10:51. A small video thumbnail of the host is visible in the top right corner.
- Participant Grid:** A 4x7 grid of 28 participants is shown. Each participant is represented by a colored circle with a letter and a name truncated to "...". The letters and names are as follows:
 - Row 1: A (ARSENOV KARLA...), B (BITANG ANDRA-DI...), B (BONCAN TIMEA...), B (BORA MARA-MON...), C (CIOIA ADRIANA-VI...), E (ESANU LAVINIA-I...), F (FERICIAN DEMIS...)
 - Row 2: F (FULGE IOSIF), G (GEORGESCU ALE...), G (GHERMAN ALEXA...), G (GIURA MARIA-ISA...), H (HUTAN EDUARD-A...), I (ISAC TABITA), L (LANGO ANDREEA...)
 - Row 3: M (MARCUT SONIA-A...), M (MORARI DEMETRA), M (MOT RARES-CRIS...), N (NAGY RIANA-ALE...), P (POSTA KARINA-D...), P (PRIBEAGU ANDRE...), S (SASU DAVID-MARI...)
 - Row 4: S (SCHNEIDER INGRID), S (SOFIA DENISA-MA...), S (STAN BIANCA-MA...), S (STANA EMINA-AL...), S (SULINCEAN DAIA...), V (VIDICAN IASMINA...), Z (ZIMBRAN CATALI...)
- Bottom Toolbar:** Contains icons for microphone (muted), video (off), and a green checkmark. A "Prezintă acum" button is also present.
- Taskbar:** Shows a file named "7D(2020-11-09).csv" and the system tray with the date "09/11/2020" and time "10:51".

Aplicația Zoom

It is used for real time communication

It has a free of charge variant that allows participants up to 500 within a limited time period of 40 minutes

There is the possibility to interact in real time

It also allows the creation of an interactive virtual board

Clasa 9C Aplicația Zoom

Zoom Meeting

Remaining Meeting Time: 03:27 | Upgrade to Pro

Magold Victor	Capatina Smaranda	Claudia Igret	Bianca Grovu	Maria Mihai
Milin Dara	Victor Birsan	Tomoiaga Rares	Mihai Cristea	Bianca Verbita
Ioja Cristina	Eric Boldor	Denis Radu	Patricia Margau	Vlad Sarandan
Luca Mihuț	Eric Boldor	Larisa Mot	Bogdan Țica	
Mara Broscatan	Roland Naghel	Toma Ionut	Opris Tudor	

Participants (24)

Find a participant

- CS Capatina Smaranda (Host, me)
- BG Bianca Grovu
- BV Bianca Verbita
- BT Bogdan Țica
- CI Claudia Igret
- DR Denis Radu
- EB Eric Boldor
- Ioja Cristina
- LM Larisa Mot
- LM Luca Mihuț
- MV Magold Victor
- Manoilă Dennis
- MB Mara Broscatan
- MM Maria Mihai
- MC Mihai Cristea
- MD Milin Dara

Windows taskbar: Type here to search, system tray, date: 26/05/2020, time: 10:39

Microsoft Teams

The platform benefits from a space of work on chat

The teachers can share didactic materials and can post announcements

The classes can be divided in smaller groups so that they can work on various projects.

The teachers can create, share and asses students' homework

International proiect "Junior Achievement" Microsoft Teams

The screenshot shows a Microsoft Teams meeting interface. At the top, the browser address bar displays the meeting URL: `teams.microsoft.com/_#/calling/19:meeting_OGFIN2FIZGUtZWE0Ny00NGE1LWI5ZmYtODNiYzFjODcwOWU0@thread.v2/`. The meeting title is "Scenariu lecție generală (orientare profesională) – susținută de voluntar". The slide content includes a list of seven items and a note about adapting the scenario. The Johnson & Johnson logo is visible at the bottom of the slide. The right sidebar shows a list of participants, including Evelina Bălu (Organizator) and 55 other participants. The bottom of the screen shows the Windows taskbar with the time 5:03 PM on 2/12/2020.

Înregistrarea a început. Participarea la întâlnire indică faptul că sunteți de acord să fiți inclus(ă) în înregistrarea întâlnirii. [Politica de confidențialitate](#) [Închideți](#)

Scenariu lecție generală (orientare profesională) – susținută de voluntar

1. salutarea elevilor;
2. exprimarea așteptărilor voluntarului privind comportamentul elevilor;
3. voluntarul se prezintă elevilor (studii, carieră);
4. cunoașterea elevilor (*profesorul pregătește pentru elevi călăreți cu prenumele lor*);
5. prezentarea aspirațiilor voluntarului despre locul de muncă și cum a ajuns să lucreze pentru această companie;
5. rolul educației pentru viitorul loc de muncă;
6. prezentarea unor concepte care pot fi amintite elevilor (cunoaștere de sine, cariera, valorile, aptitudinile etc.)
7. sesiune de Q&A.

În cazul în care profesorul dorește să prezinte scenariul de orientare profesională fără să aibă voluntar la clasă, poate adapta scenariul prezentat mai sus.

Johnson & Johnson
Evelina Bălu

01:12:04

Persoane

- Prezentatori (1)
 - EB Evelina Bălu
Organizator
- Participanți (56)
 - C Capatina
 - AP Alex Petre
 - AN Anca Niculae
 - BM Andronescu Miruna, Bocan Eli.
 - AV Anisoara Vrinceanu
 - AC Anitas Cornelia
 - AD Aristotel Doin Se părăsește întâlni...
 - AO Arvinte Ofelia

GUJU MONICA

Type here to search

5:03 PM
2/12/2020

Edmodo

The platform allows both classes and learning activities

It allows parents to participate, thus facilitating efficient communication among the three parts: teachers, students and parents

The teachers can create, share and asses tests and homework

Easyclass

Este pe lista cu platforme educaționale online pentru elevi recomandată de MEN

Platforma permite gestionarea claselor și a activităților de învățare

Oferă profesorilor posibilitatea de a transmite teme și de a le reaminti de evenimente esențiale precum predarea temelor sau apropierea unor teste

Elevii pot posta, la rândul lor, materiale sau pot discuta pe marginea temelor de la clasă

Creare de jocuri

<https://wordwall.net/>

<https://learningapps.org/createApp.php>

<https://kahoot.com/>

<https://www.purposegames.com/>

<https://crosswordlabs.com/>

<http://www.crickweb.co.uk/>

https://wordwall.net/
https://wordwall.net/myactivities

The screenshot shows the 'My Activities' page on Wordwall.net. The browser address bar displays 'wordwall.net/myactivities'. The page header includes the Wordwall logo, navigation links (Home, Features, Community, My Activities, My Results), and buttons for 'Create Activity', 'Upgrade', and a user profile dropdown labeled 'aniculae'. The main content area is titled 'My Activities' and features a search bar, a 'New folder' button, and a 'Recycle Bin' button. Below this, there are sorting options: 'Order by: Name', 'Modified', and 'Last played'. Three activity cards are displayed in a grid:

- Cine răspunde? 8A**: A 'Random wheel' activity with a colorful wheel and a green arrow. It is set to 'Private'.
- Formule chimice**: A 'Whack-a-mole' activity with a mole character and a sign that says 'Emanările O₂100'. It is set to 'Public' and has 11 plays.
- Substanțe chimice -ADEVA...**: A 'True or false' activity with a question in Romanian: 'Într-o soluție de apă cu zahăr apa este dizolvantul?'. It has 'True' and 'False' buttons and is set to 'Public' with 4 plays.

<https://learningapps.org/createApp.php>
<https://learningapps.org/myapps.php>

The screenshot shows the LearningApps.org user interface. At the top, there is a navigation bar with the LearningApps.org logo, a search bar, and a user profile for 'Anca Niculae'. Below the navigation bar, there are several tabs: 'Caută exerciții', 'Răsfoiește exerciții', 'Alcătuiește exercițiu', 'Clasele mele', and 'Exercițiile mele'. The 'Exercițiile mele' tab is active, showing a grid of 8 app thumbnails. The thumbnails are: 1. A blue plus sign icon. 2. 'Proprietăți fizice ale fierului' (Physical properties of iron). 3. 'Procentul de masa al metalului în minereu' (Percentage of metal mass in ore). 4. 'Proprietăți chimice Fe, Cu' (Chemical properties of Fe, Cu). 5. 'Proprietățile aliajelor' (Properties of alloys). 6. 'Aliaje' (Alloys). 7. 'Compuși de fier și cupru' (Compounds of iron and copper). 8. 'Fierul - stare naturală' (Iron - natural state). 9. 'Minereuri' (Ores). 10. 'Fierul' (Iron). At the bottom of the page, there is a footer with links for 'Despre LearningApps.org', 'Impressum', 'Protecția datelor / Drepturi', and 'Help translating'.

The screenshot shows the LearningApps.org user interface. At the top, there is a navigation bar with the LearningApps.org logo, a search bar, and a user profile for 'Anca Niculae'. Below the navigation bar, there are several tabs: 'Caută exerciții', 'Răsfoiește exerciții', 'Alcătuiește exercițiu', 'Clasele mele', and 'Exercițiile mele'. The 'Exercițiile mele' tab is active, showing a grid of 7 app thumbnails. The thumbnails are: 1. A blue plus sign icon. 2. 'Molecule' (Molecules). 3. 'Compuși ionici' (Ionic compounds). 4. 'IONI SI MOLECULE' (IONS AND MOLECULES). 5. 'Tabloul periodic al elementelor' (Periodic table of elements). 6. 'Simboluri chimice' (Chemical symbols). 7. 'Atomul' (Atom). At the bottom of the page, there is a footer with links for 'Despre LearningApps.org', 'Impressum', 'Protecția datelor / Drepturi', and 'Help translating'.

https://kahoot.com/
https://create.kahoot.it/kahoots/my-kahoots

← → ↻ create.kahoot.it/kahoots/my-kahoots

Apps Solutii piscine - Sol...

Seminar web gratuit: Alăturați-vă expertului EdTech Leslie Fisher pe 9 decembrie. Rezervați-vă locul. [Inregistreaza-te](#) X

kahoot! Acasă Descoperi Kahoots Rapoarte Grupuri Imbunatateste acum Crea

Căutare...

Kahoots-ul meu Filtrează după: **Cel mai recent**

Kahoots (3) [Creeaza nou](#) [Organizați-vă în dosare](#)

Alcani 12 întrebări anicule Vizibil pentru toată lumea Joaca Editați | + Creat acum o zi • 2 piese de teatru

Substanțele în natură 10 întrebări anicule Vizibil pentru toată lumea Joaca Editați | + Creat acum 2 zile • 1 redare

Chimie, Chimie ... 10 întrebări anicule Vizibil numai pentru tine Joaca Editați | + Creat acum 4 luni • 4 piese de teatru

Access team space [Upgrade to Pro](#)

https://www.purposegames.com/

Search Results for chimie (found 7 games)

Games (7) Users (2) Playlists (0) Groups (0)



14. **Chimie – Decantare, filtrare, cristalizare**

☆☆☆☆☆ Type-the-Answer

by Tawnie

8p • 19 plays



Ustensile din laboratorul de chimie.

☆☆☆☆☆ Point-and-Click

by Carmen Matei

10p • 9 plays



Ustensilele din laboratorul de chimie

☆☆☆☆☆ Point-and-Click

by Monica Giju

9p • 6 plays



Laboratorul de chimie.Provocare .Echipa " Reactiv

☆☆☆☆☆ Point-and-Click

by Monica Giju

15p • 5 plays



11. **Chimie - Subst. simple & compuse & amestecuri**

☆☆☆☆☆ Type-the-Answer

by Tawnie

26p • 10 plays



15. **Chimie – Timpul de degradare**

☆☆☆☆☆ Type-the-Answer

by Tawnie

8p • 7 plays



12. **Chimie – Propr. subst. compuse & amestecuri s.**

☆☆☆☆☆ Type-the-Answer

by Tawnie

14p • 5 plays

https://crosswordlabs.com/

Crossword Labs

Faceți un cuvânt încrucișat [Găsiți un cuvânt încrucișat](#) [Despre](#) [Log In / Înregistrare](#)

Titlu de cuvinte încrucișate

Introduceți cuvântul, un spațiu și apoi indiciul. O pereche de cuvinte / indicii pe linie. [Trebuie să vezi un exemplu?](#)

Creați o parolă

Aceasta va proteja cheia de răspuns și vă va permite să vă editați puzzle-ul. **Nu uita!** Nu îl puteți recupera.

Setarea de confidențialitate

- Public (gratuit!)**
Oricine vă poate găsi, vizualiza, rezolva și imprima puzzle-ul. Acesta va fi vizibil în motoarele de căutare.

Ascuns (numai pentru membri)




Free, Fast & Easy

Crossword Labs este cel mai simplu mod de a construi, tipări, partaja și rezolva online cuvinte încrucișate. Este gratuit, rapid și ușor.

Fără reclame, fără filigran și nu este necesară înregistrarea.

S-au făcut peste **un milion de** cuvinte încrucișate!

 **Exemple de cuvinte încrucișate**
[Planetele](#)
[Vreme](#)
[Animale](#)

Găsiți un puzzle încrucișat

Găsiți un cuvânt încrucișat gata pregătit pe orice subiect:

sau fă-ți propriul!

Caracteristici

- o Rapid, simplu și gratuit de utilizat
- o Adresă URL pentru cuvinte încrucișate care se poate partaja
- o Rezolva puzzle-ul online
- o Funcționează pe tablete și telefoane
- o Incorporați-vă puzzle-ul pe site-ul dvs. web
- o Imprimați / exportați cuvintele încrucișate în PDF sau Microsoft Word

Eighth grade science

2

IXL offers more than 100 eighth grade science skills to explore and learn! Not sure where to start? Hover your mouse over any skill name to preview it, then click to practice!

3

A. Science practices and tools

- 1 Identify steps of the scientific method
- 2 Identify laboratory tools

4

B. Designing experiments

- 1 Identify control and experimental groups
- 2 Identify independent and dependent variables
- 3 Identify the experimental question
- 4 Identify questions that can be investigated with a set of materials
- 5 Understand an experimental protocol about plant growth
- 6 Understand an experimental protocol about diffusion
- 7 Understand an experimental protocol about evaporation

8

C. Engineering practices

- 1 Identify parts of the engineering-design process
- 2 Evaluate tests of engineering-design solutions
- 3 Use data from tests to compare engineering-design solutions
- 4 Explore the engineering-design process: going to the Moon!

D. Density

- 1 Calculate density, mass, and volume

E. Atoms and molecules

- 1 What are atoms and chemical elements?
- 2 How are substances represented by chemical formulas and models?

I. Thermal energy

- 1 Predict heat flow and temperature changes
- 2 Compare thermal energy transfers

J. Particle motion and energy

- 1 How does particle motion affect temperature?
- 2 Particle motion and changes of state
- 3 How does particle motion affect gas pressure?
- 4 Identify how particle motion affects temperature and pressure

K. Waves

- 1 Compare amplitudes, wavelengths, and frequencies of waves
- 2 Compare energy of waves

L. Solutions

- 1 Compare concentrations of solutions
- 2 Diffusion across membranes

M. Classification and scientific names

- 1 Identify common and scientific names
- 2 Origins of scientific names
- 3 Use scientific names to classify organisms

N. Biochemistry

- 1 Structure and function: carbohydrates, lipids, proteins, and nucleic acids
- 2 Understanding the chemistry of cellular respiration

T. Plant reproduction

- 1 Angiosperm and conifer life cycles
- 2 Moss and fern life cycles

U. Photosynthesis

- 1 How do plants use and change energy?
- 2 Identify the photosynthetic organism

V. Ecosystems

- 1 Describe populations, communities, and ecosystems
- 2 Identify ecosystems
- 3 Describe ecosystems

W. Ecological interactions

- 1 How does matter move in food chains?
- 2 Interpret food webs I
- 3 Interpret food webs II
- 4 Use food chains to predict changes in populations
- 5 Classify symbiotic relationships
- 6 Investigate primary succession on a volcanic island

X. Conservation

- 1 Coral reef biodiversity and human uses: explore a problem
- 2 Coral reef biodiversity and human uses: evaluate solutions

Y. Natural resources and human impacts

- 1 Evaluate claims about natural resource use: groundwater

<http://www.crickweb.co.uk/>
<https://www.ixl.com/science/grade-7>

Seventh grade science

2

IXL offers more than 100 seventh grade science skills to explore and learn! Not sure where to start? Hover your mouse over any skill name to preview it, then click to practice!

3

A. Science practices and tools

- 1 Identify steps of the scientific method
- 2 Identify laboratory tools

4

B. Designing experiments

- 1 Identify control and experimental groups
- 2 Identify independent and dependent variables
- 3 Identify the experimental question
- 4 Identify questions that can be investigated with a set of materials
- 5 Understand an experimental protocol about plant growth
- 6 Understand an experimental protocol about diffusion
- 7 Understand an experimental protocol about evaporation

7

8

C. Engineering practices

- 1 Identify parts of the engineering-design process
- 2 Evaluate tests of engineering-design solutions
- 3 Use data from tests to compare engineering-design solutions
- 4 Explore the engineering-design process: going to the Moon!

D. Density

- 1 Calculate density, mass, and volume

E. Atoms and molecules

- 1 What are atoms and chemical elements?
- 2 How are substances represented by chemical formulas and models?

J. Particle motion and energy

- 1 How does particle motion affect temperature?
- 2 Particle motion and changes of state
- 3 How does particle motion affect gas pressure?
- 4 Identify how particle motion affects temperature and pressure

K. Waves

- 1 Compare amplitudes, wavelengths, and frequencies of waves
- 2 Compare energy of waves

L. Solutions

- 1 Compare concentrations of solutions
- 2 Diffusion across membranes

M. Classification and scientific names

- 1 Identify common and scientific names
- 2 Origins of scientific names
- 3 Use scientific names to classify organisms

N. Biochemistry

- 1 Structure and function: carbohydrates, lipids, proteins, and nucleic acids
- 2 Understanding the chemistry of cellular respiration

O. Cells

- 1 Understanding cells
- 2 Identify functions of plant cell parts

U. Photosynthesis

- 1 How do plants use and change energy?
- 2 Identify the photosynthetic organism

V. Ecosystems

- 1 Describe populations, communities, and ecosystems
- 2 Identify ecosystems
- 3 Describe ecosystems

W. Ecological interactions

- 1 How does matter move in food chains?
- 2 Interpret food webs I
- 3 Interpret food webs II
- 4 Use food chains to predict changes in populations
- 5 Classify symbiotic relationships
- 6 Investigate primary succession on a volcanic island

X. Conservation

- 1 Coral reef biodiversity and human uses: explore a problem
- 2 Coral reef biodiversity and human uses: evaluate solutions

Y. Natural resources and human impacts

- 1 Evaluate claims about natural resource use: groundwater
- 2 Evaluate claims about natural resource use: fossil fuels

Z. Rocks and minerals

Tests creation

<https://quizizz.com/>

<https://www.proprofs.com/>

<http://www.triventy.com/>

<https://www.quizalize.com/>

<https://quizwhizzer.com/>

<https://asq.ro/>

<https://www.mentimeter.com/>

<https://testmoz.com/>

<https://knowt.io/>

+ toate platformele online

https://quizizz.com/admin/quiz/5fcba4191a57c1001b328ca3/react%C8%9Bii-chimice

The screenshot shows the Quizizz admin interface for a quiz titled "Reacții chimice". The interface includes a sidebar with navigation options like "Explore", "My library", "Reports", "Classes", "Settings", and "More". The main content area displays the quiz details, including the creator's name "NICULAE ANCA", the number of plays (0), and the subject (Chemistry). There are buttons for "Start a live quiz" and "Assign homework". Below this, there are two questions displayed. The first question asks for the minimum coefficients to balance a chemical reaction, and the second question asks for the number of oxygen atoms in a balanced reaction. The interface also features a "Remove ads" banner on the right side.

QUIZZ

Search

Quizizz library

Lessons

Enter Code

NICULAE ANCA
Plan: Basic

Upgrade to Super

Create

Explore

My library

Reports

Classes

Settings

More

QUIZ

Reacții chimice

0 plays

8th grade • Chemistry

aniculae_14758
40 minutes ago

0 Save Share Edit

INSTRUCTOR-LED SESSION
Start a live quiz

ASYNCHRONOUS LEARNING
Assign homework

9 questions

SHOW ANSWERS

PREVIEW

Question 1

30 seconds

Q. Coeficienții minimi cu care se egalează reacția
 $\text{MgSO}_4 + b \text{AgNO}_3 \rightarrow c \text{Ag}_2\text{SO}_4 + d \text{Mg}(\text{NO}_3)_2$
sunt:

— answer choices —

a = 1, b = 1, c = 1, d = 2

a = 2, b = 1, c = 1, d = 2

a = 1, b = 2, c = 1, d = 2

a = 1, b = 2, c = 1, d = 1

Question 2

30 seconds

Q. În bilanțul atomic al reacției
 $\text{MgSO}_4 + b \text{AgNO}_3 \rightarrow c \text{Ag}_2\text{SO}_4 + d \text{Mg}(\text{NO}_3)_2$
egalată cu coeficienții minimi numărul atomilor de oxigen care intră respectiv ies din reacție
este:

— answer choices —

10

4

Remove distracting ads.

Get rid of ads and unlock great new features with Super!

Go Super!

Remove ads

https://www.mentimeter.com/app

The screenshot shows the Mentimeter web application interface. At the top, there is a browser address bar with the URL "mentimeter.com/app". Below the address bar, the Mentimeter logo is on the left, and a navigation menu includes "My presentations", "Inspiration", and "Branding & Colors". On the right side of the header, there is a green "Upgrade" button, a help icon, and a user profile icon. A dropdown menu is open for the user profile, showing the email "aniculae@tichindeal.ro", "Settings", and "Log out".

The main content area is titled "My presentations" and contains two buttons: "+ New presentation" and "+ New folder". Below these buttons is a table of presentations:

<input type="checkbox"/>	Name	Modified ↓	Created	
<input type="checkbox"/>	▶ Cuvinte - chimie 2 SLIDES 2 VOICES	3 minutes ago	Aug 9, 2020	⋮
<input type="checkbox"/>	▶ Transformări chimice ale substanțelor 2 SLIDES	9 minutes ago	28 minutes ago	⋮
<input type="checkbox"/>	▶ Simboluri 2 SLIDES 2 VOICES	Aug 9, 2020	Aug 9, 2020	⋮

Experimentele virtuale

❑ The students can experiment any real situation, no matter the complexity degree or no matter how dangerous it could be. The simulations can be repeated until the science phenomenon is completely understood. Very important we can also talk about experiments that cannot be done in the school laboratory or those which were made under classical conditions.

❑ Different physics and chemistry measurements can be undergone, using simulation of the experiment or its modelation.

Experimentele virtuale

<https://www.mozaweb.com>

<https://www.exploratorium.edu>

<http://galileoandeinstein.physics.virginia.edu>

<https://www.walter-fendt.de>

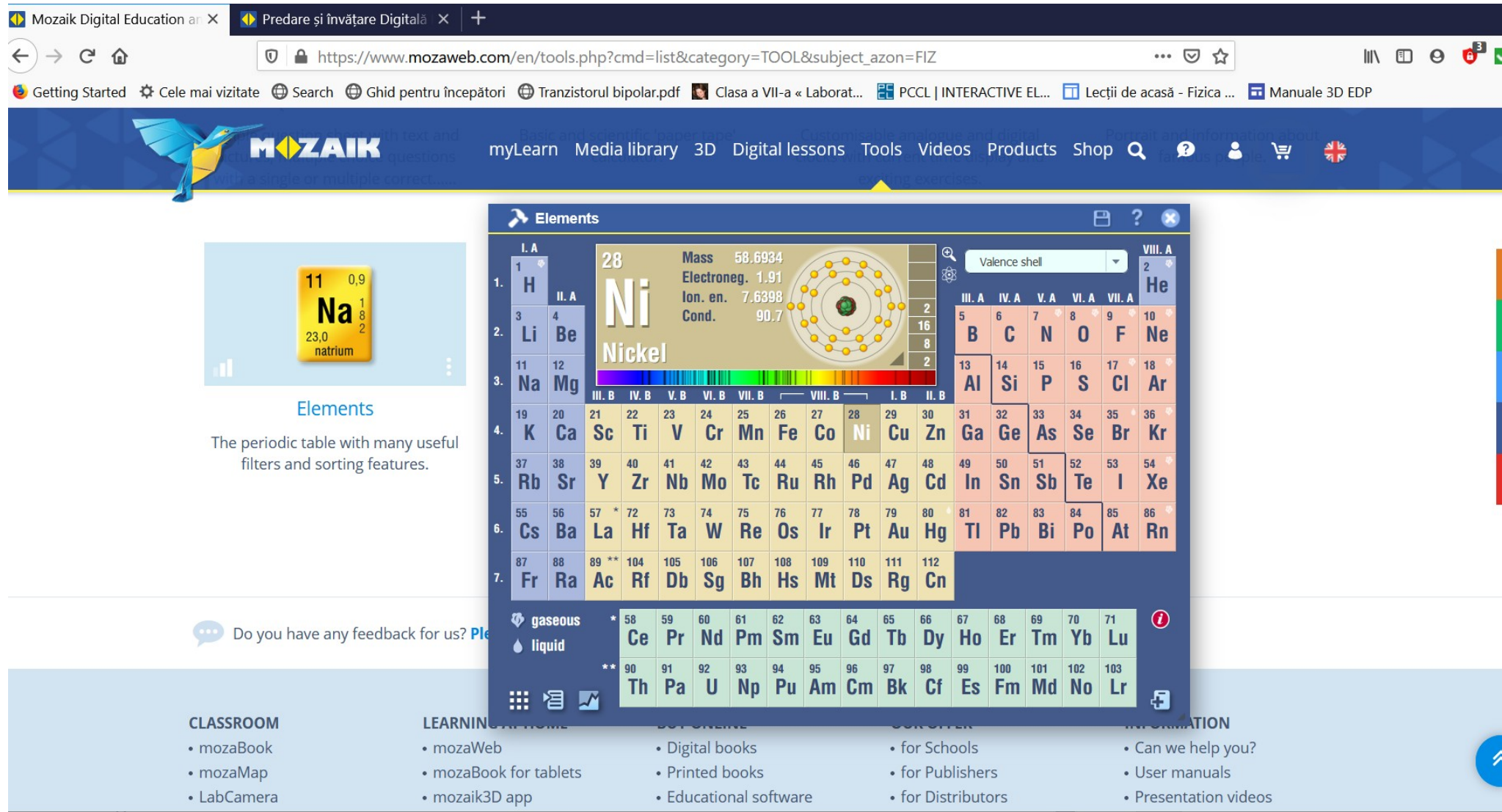
<http://www.physics-chemistry-interactive-flash-animation.com>

<https://www.vascak.cz>

<https://faraday.physics.utoronto.ca>

<https://iwant2study.org>

<https://www.mozaweb.com/en/- Chemistry>



The screenshot displays the Mozaik website interface. At the top, there is a navigation bar with the Mozaik logo and various menu items: myLearn, Media library, 3D, Digital lessons, Tools, Videos, Products, Shop. Below this, a search bar and several utility icons are visible.

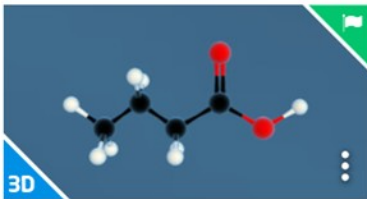
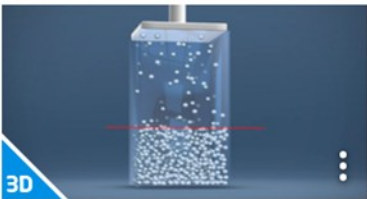
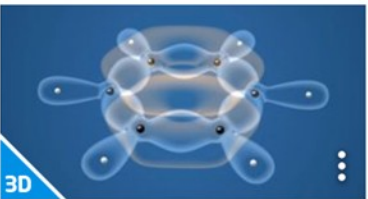
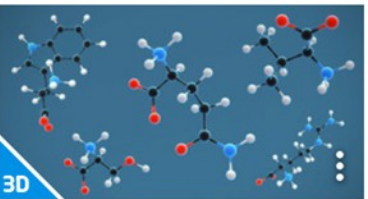
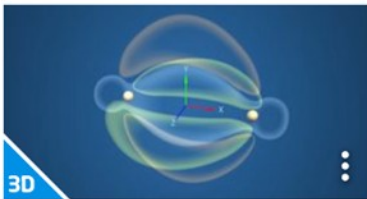
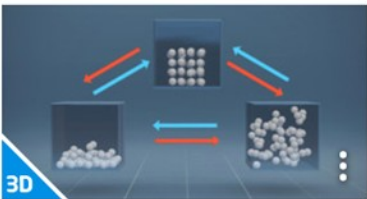
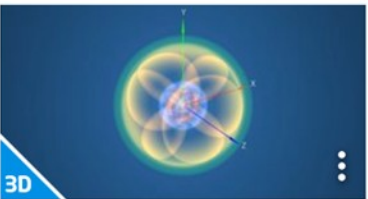
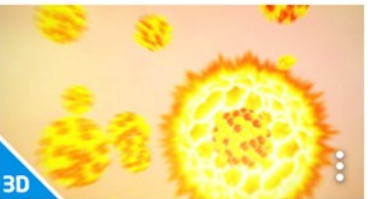
The main content area features a periodic table of elements. A pop-up window titled "Elements" is open, showing detailed information for Nickel (Ni). The pop-up includes the element's symbol, atomic number (28), mass (58.6934), electronegativity (1.91), ionization energy (7.6398), and conductivity (90.7). It also displays a Bohr model of the atom and a color-coded periodic table.

Below the periodic table, there are several sections:

- CLASSROOM**
 - mozaBook
 - mozaMap
 - LabCamera
- LEARNING AT HOME**
 - mozaWeb
 - mozaBook for tablets
 - mozaik3D app
- SOFTWARE**
 - Digital books
 - Printed books
 - Educational software
- FOR OTHER**
 - for Schools
 - for Publishers
 - for Distributors
- INFORMATION**
 - Can we help you?
 - User manuals
 - Presentation videos

<https://www.mozaweb.com/en/- Chemistry>

The screenshot shows a web browser window with the Mozaweb website. The browser's address bar displays the URL <https://www.mozaweb.com/lexikon.php?cmd=getlist&let=3D&sid=KEM>. The website's header features the Mozaweb logo and navigation links: myLearn, Media library, 3D, Digital lessons, Tools, Videos, Products, Shop, and a search icon. Below the header, there is a grid of eight 3D model thumbnails, each with a '3D' label in the bottom-left corner and a three-dot menu icon in the bottom-right corner. Each thumbnail is accompanied by a title and a short description.

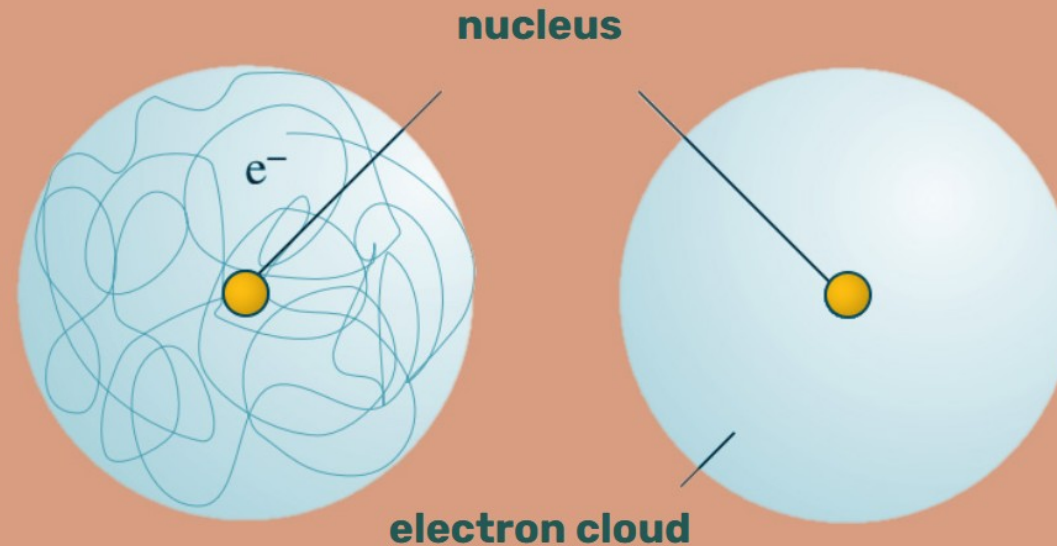
 <p>Butyric acid Butyric acid (or butanoic acid) is a saturated monocarboxylic acid.</p>	 <p>Evaporation and boiling What happens in a liquid during evaporation and boiling? What does its boiling point depend on?</p>	 <p>Covalent bonds in benzene molecules In benzene there are sigma bonds and delocalised pi bonds between carbon atoms.</p>	 <p>Amino acids Amino acids are the monomers of proteins.</p>
 <p>The structure of nitrogen molecules This animation demonstrates the structure of nitrogen molecules, with</p>	 <p>Phase transitions A phase transition is the change of a substance from one state of matter to another.</p>	 <p>Electron configuration of calcium This animation shows the electron configuration of the calcium atom</p>	 <p>Chain reaction Energy released during nuclear fission can be used for civilian or military purposes.</p>

<https://www.mozaweb.com/en/>

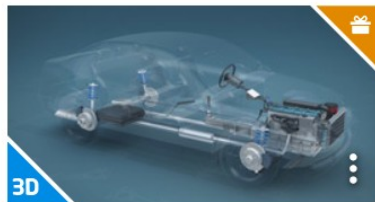
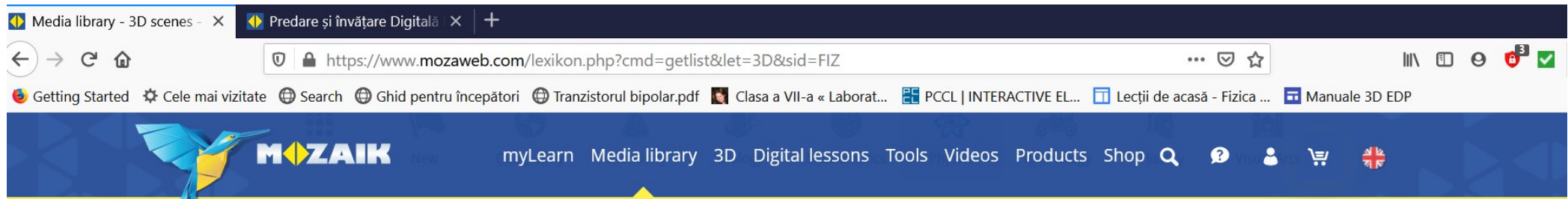


myLearn Media library 3D Digital lessons Tools Videos Products Shop     

The **protons** and **neutrons** in the **nucleus** and the **electrons** in the **electron cloud** together form the atom.

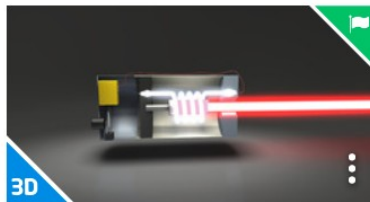


<https://www.mozaweb.com/en/-Physics>



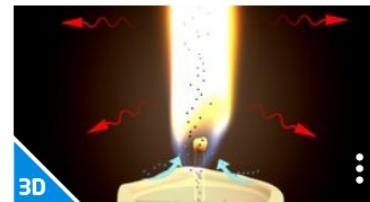
Four-stroke Otto engine

This animation demonstrates the type of engine most commonly used in cars.



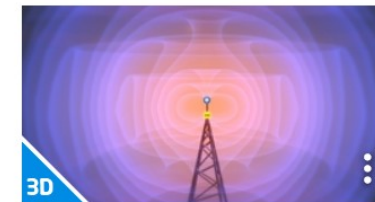
How does it work? - Laser

Lasers are devices designed to emit narrow, monochromatic, high-intensity beams of light.



The science of candles

Candles have been used for lighting since ancient times.



Types of waves

Waves play an extremely important role in many areas of our lives.



Physicists who changed the world

These great scientists had a



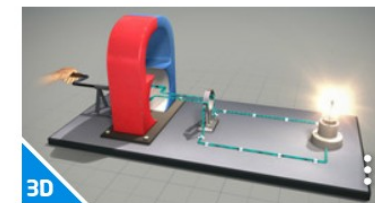
Nikola Tesla's laboratory (Shoreham, USA)

This physicist-inventor and electrical



Marie Curie's laboratory

Marie Curie, the only person to win the Nobel Prize in two different



Generators and electric motors

While generators convert mechanical energy into electrical energy, electric



<https://www.exploratorium.edu/explore>

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Saltwater Pentacell

Explore current events in electrochemistry.

Make your own battery! Create five simple cells from aluminum foil, copper wire, and saltwater, and connect them in series. Together, they produce enough voltage to light an LED.

Grade Bands: [3-5](#) [6-8](#) [9-12](#)

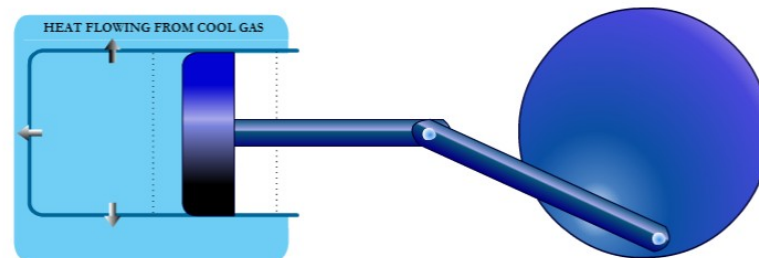
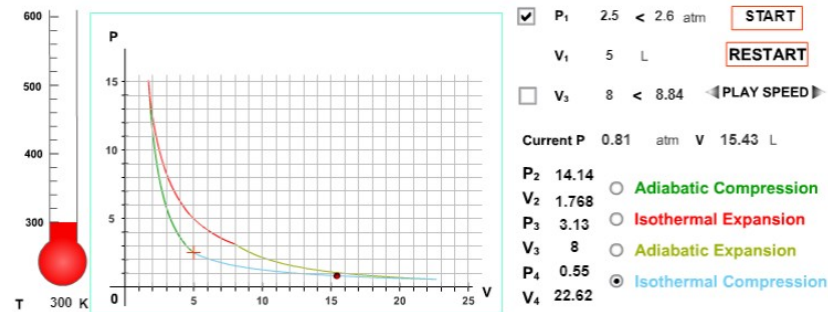
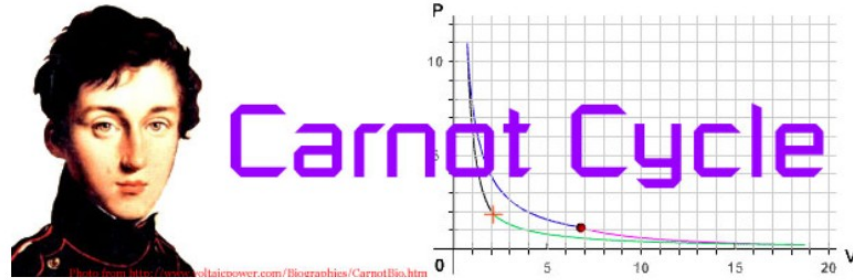
Subject: [Chemistry: Materials & Matter, Combining Matter](#) · [Physics: Electricity & Magnetism, Energy](#)

Keywords: [battery](#) [electrode](#) [electrochemistry](#) [ion](#) [electron](#) [current](#) [voltage](#) [salt](#) [aluminum foil](#) [copper](#)

http://galileoandeinstein.physics.virginia.edu/more_stuff/flashlets/home.htm

Flash animations to make learning physics easier

galileoandeinstein.phys.virginia.edu/more_stuff/flashlets/carnot.htm



Programmed by Wan Ching Hui

Newton's Second Law Experiment

This HTML5 app simulates an air track glider setup, as it is used for experiments on [constant acceleration motion](#). A gravitational acceleration of 9.81 m/s^2 was presupposed.

The mass of the wagon, the value of the hanging mass and the coefficient of friction (within certain limits) can be changed.

For one measurement you have to adjust the measuring distance (from the initial position to the light barrier LB, accuracy 5 mm) with pressed mouse button and to read the corresponding time (digital display, accuracy 1 ms). During the movement a red point in the t-s-diagram (time - displacement) indicates the present time and the covered distance. As soon as the measurement of time is finished, the pair of measured values will be marked on the diagram. After a mouse click on the "Record data" button the data will be registered on the list.

The screenshot shows the following components:

- Diagram:** A schematic of an air track with a glider, a light barrier (LB), and a hanging mass.
- Digital Display:** Shows a time of 0.000 s .
- Equations:**
$$s = 0.500 \text{ m}$$
$$t =$$
$$a = \frac{2s}{t^2}$$
- Graph:** A coordinate system with displacement s (in m) on the vertical axis (0 to 1.0) and time t (in s) on the horizontal axis (0 to 5). A red dot is plotted at the origin.
- Control Panel (Right):**
 - Buttons: **Reset** (cyan), **Start** (yellow), **Diagram** (white).
 - Mass of the wagon: $M = 100 \text{ g}$
 - Hanging mass: $m = 1.0 \text{ g}$
 - Coefficient of friction: $\mu = 0.000$
 - Data table:

s	t
 - Copyright: W. Fendt 1997, T. Mzoughi 1998

<http://www.physics-chemistry-interactive-flash-animation.com/>
Flash animations and interactive exercises

← → ↻ ⚠ Not secure | physics-chemistry-interactive-flash-animation.com/chemistry_interactive/chemical_reaction_iron_hydrochloric_acid.htm 🔍 ☆ 🔒 ⚙

activity #2 activity #3

silver nitrate

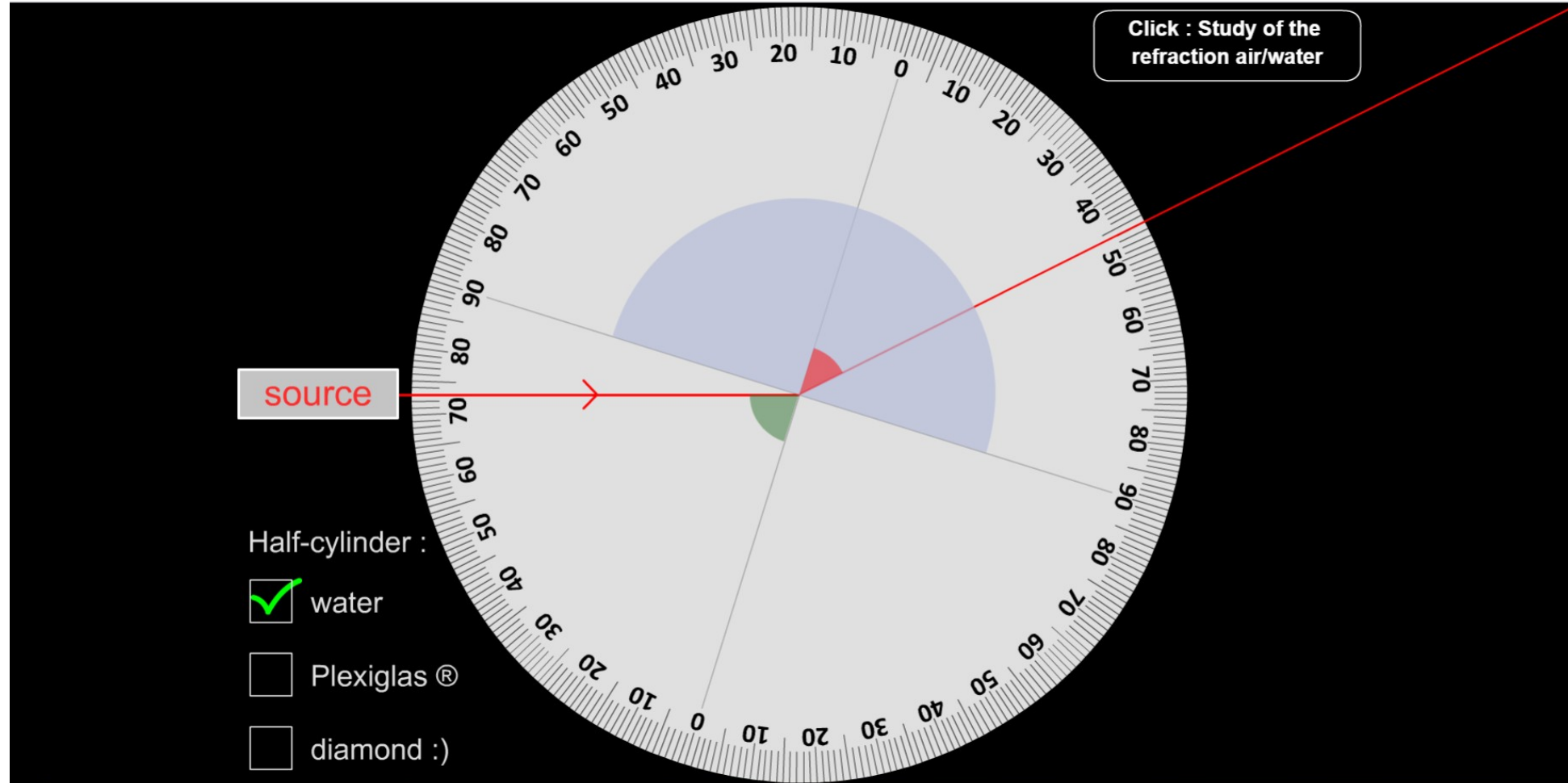
lye

RESIDUAL SOLUTION to be tested

test with silver nitrate test with lye

pH measurement 7.02

<http://www.physics-chemistry-interactive-flash-animation.com/>



<https://www.vascak.cz/physicsanimations.php?l=en>

The image shows a physics simulation interface. On the left, there are three buttons for downloading the app: "Download on the App Store", "GET IT ON Google Play", and "Windows Store". The URL "www.vascak.cz" is visible vertically on the left side. The main area displays a pulley system with two pulleys. A weight labeled "3" is suspended from the left pulley. A weight labeled "4" is suspended from the right pulley. A weight labeled "5" is suspended from a central point where two ropes meet. A force vector diagram is shown with a blue sector of angle $\alpha = 53.1^\circ$ and a pink sector of angle $\beta = 36.9^\circ$. A red arrow points from the center of weight "5" towards the right pulley. On the right side, there is a "Parallelogram o..." button, a user profile icon, and a logo with "PZ" and "Zlín".

<https://faraday.physics.utoronto.ca/PVB/Harrison/Flash/Reflection/Reflection.html>

faraday.physics.utoronto.ca/PVB/Harrison/Flash/Reflection/Reflection.html

19

Drag the slider to rotate the mirror by an angle θ

Rotating a Mirror By an Angle θ
Rotates the Reflected Ray By 2θ

30°

30°

$\theta = 19$

2θ

Previous:

The diagram shows a vertical mirror on the left. A horizontal dotted line represents the normal. An incident ray (red arrow) is shown at an angle of 30° to the normal. A reflected ray (red arrow) is shown at an angle of 30° to the normal. A second mirror is shown rotated by an angle $\theta = 19$ degrees. The new reflected ray is shown at an angle of $2\theta = 38$ degrees to the normal. A purple arc indicates the rotation of the reflected ray by 2θ . A green play button is labeled "Previous:".

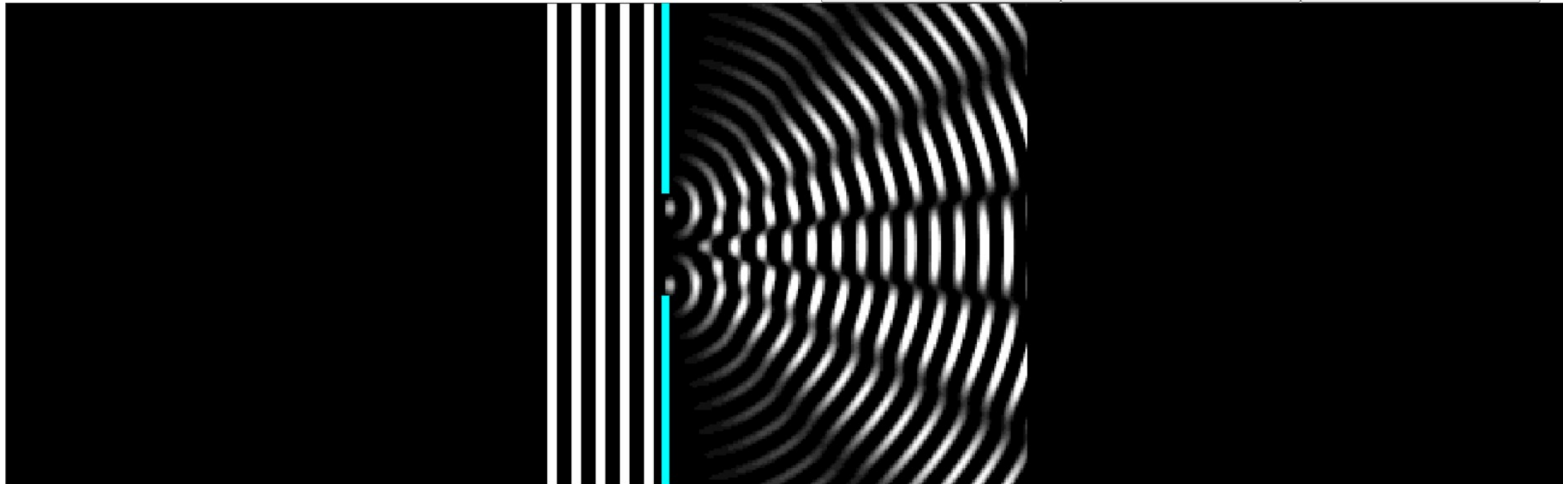
<https://iwant2study.org/ospsg/index.php/interactive-resources/physics>

iwant2study.org/lookangejss/04waves_11superposition/ejss_model_wave_doublelit2wee03/wave_doublelit2wee03_Simulation.xhtml

■ $n =$ 5 ■ $\lambda =$ 0.20 m ■ $w =$ 0.20 m ■ $d =$ 0.65 m

T = 0.500 s color = BLACK

▶ Play |▶ Step ↺ Reset





Thank You For Listening