

TIK w pracy nauczyciela dwujęzycznego



Renata Sidoruk-Sołoducha
OEIiZK

<https://imgflip.com/i/5naglm>

Interaktywne zasoby



Interactive resources for schools

by age

by topic

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I'm looking for...



Select an age range to seek interactive content for...

Ages
5-7

Ages
7-11

Ages
11-14

Ages
14-16

Ages
16+

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Choose a topic...

→ Animal habitats

5-7

7-11

→ Animals including humans

5-7

7-11

→ Antimicrobial resistance

16+

→ Atoms, bonding and types of reactions

16+

→ Balanced diet

11-14

14-16

→ Beating bacteria

14-16

→ Biotechnology

14-16

16+

→ Body builder

5-7

7-11

11-14

14-16

→ Breathing and asthma

11-14

14-16

→ Cell biology

16+

<https://www.abpischools.org.uk/all-topics>



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Proteins



Chemistry

306

PLATE
TECTONICS

CHEMISTRY

FuseSchool - Global Education ✓

WYŚWIETL CAŁĄ PLAYLISTĘ

Biology

MITOSIS

215

BIOLOGY

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WYŚWIETL CAŁĄ PLAYLISTĘ

Trigonometry
SOHCAHTOA

207

MATHS

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WYŚWIETL CAŁĄ PLAYLISTĘ

Physics
CHANGES OF STATE

107

ODTWÓRZ WSZYSTKIE

PHYSICS

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Zaktualizowano dzisiaj

WYŚWIETL CAŁĄ PLAYLISTĘ

FuseSchool

<https://www.youtube.com/watch?v=x5ZXQo-xeMo>

The scientific method

The screenshot shows a YouTube channel interface for 'Teacher's Pet'. The channel has a green chalkboard background with the title 'TEACHER'S PET' in large, stylized, purple letters. A cartoon teacher character with glasses and a lab coat is standing next to a beaker. Below the title, there is a video player showing a video titled 'Biology' with a thumbnail of a mouse in a tank. The video duration is 0:10 / 4:05. Below the video player, there are several video thumbnails arranged in two rows:

Biology ► ODTWÓRZ WSZYSTKIE

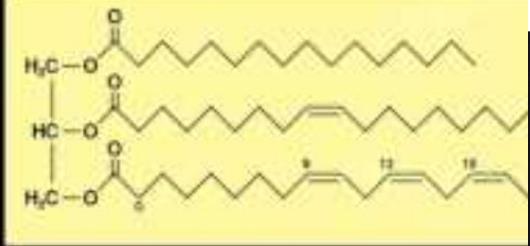
- Scientific Method** [TEACHER'S PET] 4:06
- Observations and Inferences** [TEACHER'S PET] 1:44
- Using Math to Analyze Data** 4:25
- The Metric System** 2:43
- Cell History** [Robert Burns] 2:43
- Cell diversity, shape and size** [Teacher's Pet] 3:04

Chemistry ► ODTWÓRZ WSZYSTKIE

- Matter** [Teacher's Pet] 228 tys. wyświetleń • 7 lat temu
- Changes of States of Matter** [TEACHER'S PET CHEN] 4:56 1:10
- Symbols and Formulas** [Teacher's Pet] 14 tys. wyświetleń • 7 lat temu
- Periodic Table** [Teacher's Pet] 31 tys. wyświetleń • 7 lat temu
- Temperature** [Teacher's Pet] 47 tys. wyświetleń • 6 lat temu
- Direct and Inverse Relationships** [Teacher's Pet] 25 tys. wyświetleń • 6 lat temu

<https://www.youtube.com/watch?v=SMGRe824kak>

Triglycerides



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ANATOMY



ASTRONOMY



BIG HISTORY



BIOLOGY

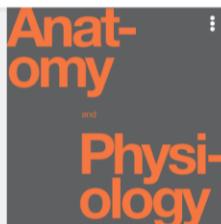


ENTREPRENEURSHIP

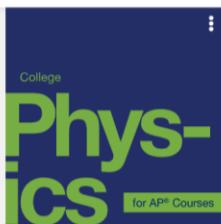
<https://thecrashcourse.com/>

Podręczniki online

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Anatomy and Physiology



The AP Physics Collection



Astronomy

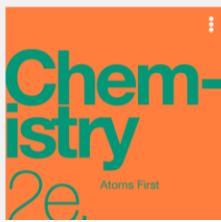
Subjects ▾ Technology ▾ What we do ▾ Log in



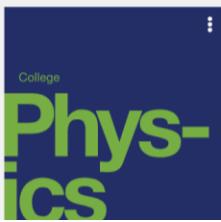
Biology



Biology
for AP® Courses



Atoms First



Astronomy

Table of contents

- 1.2 Themes and Concepts of Biology
- Key Terms
- Chapter Summary
- Visual Connection Questions
- Review Questions
- Critical Thinking Questions
- ▶ 2 The Chemical Foundation of Life
- ▶ 3 Biological Macromolecules
- ▼ The Cell
- ▶ 4 Cell Structure
- Introduction
- 4.1 Studying Cells
- 4.2 Prokaryotic Cells
- 4.3 Eukaryotic Cells
- 4.4 The Endomembrane System and Proteins
- 4.5 The Cytoskeleton

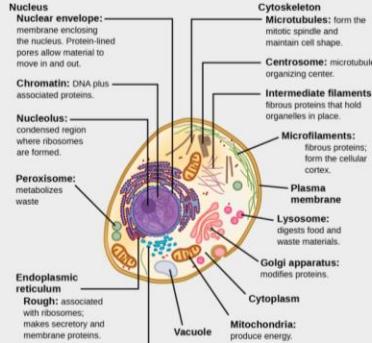
4.3 Eukaryotic Cells

Search this book



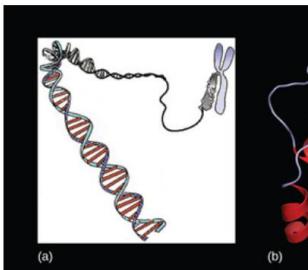
My highlights

Visual Connection



molecular entity capable of replication, transcription, translation, and mutation. Genes are composed of DNA and are linearly arranged on chromosomes. Some genes encode structural and regulatory RNAs. There is increasing evidence from research that profiles the transcriptome of cells (the complete set all RNA transcripts present in a cell) that these may be the largest classes of RNAs produced by eukaryotic cells, far outnumbering the protein-encoding messenger RNAs (mRNAs), but the 20,000 protein-encoding genes typically found in animal cells, and the 30,000 protein-encoding genes typically found in plant cells, nonetheless have huge impacts on cellular functioning.

Protein-encoding genes specify the sequences of amino acids, which are the building blocks of proteins. In turn, proteins are responsible for orchestrating nearly every function of the cell. Both protein-encoding genes and the proteins that are their gene products are absolutely essential to life as we know it.



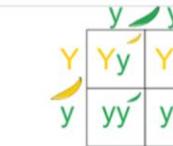
Community Tools Libraries Resources Readability



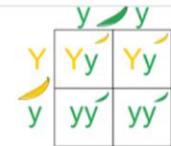
13: Modern Understandings of Inheritance



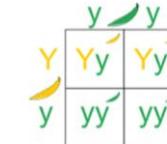
14: DNA Structure and Function



15: Genes and Proteins



16: Gene Expression



17: Biotechnology and



18: Evolution and the Origin of Species



19: The Evolution of Populations



1: The Study of Life

E-podręczniki

Platforma edukacyjna Ministerstwa Edukacji i Nauki

Ministerstwo
Edukacji i Nauki

Zintegrowana Platforma Edukacyjna Kształcenie ogólne ▾ Kształcenie zawodowe ▾ Doradztwo zawodowe ▾ Wsparcie użytkownika ▾ ...

Zaloguj się



India - social and economic contrasts

Source: licencja: CC 0, [online], dostępny w internecie: www.pixabay.com.

[Link to the lesson](#)

Before you start you should know

- that the national environment influences the distribution of people on a given area;
- that the sociocultural issues also influence the management of resources on a given area;

<https://zpe.gov.pl/a/india---social-and-economic-contrasts/DYsYyiveU>

Symulacje dla przyrodników

PHET | CU

0 Results

Biology X HTML5 X

SIMULATIONS TEACHING RESEARCH ACCESS & INCLUSION

SUNDAY A-Z

- Sound & Waves
- Work, Energy & Power
- Heat & Thermo
- Quantum Phenomena
- Light & Radiation
- Electricity, Magnets & Circuits
- Chemistry
- General Chemistry
- Quantum Chemistry
- Math
- Math Concepts
- Math Applications
- Earth Science
- Biology

GRADE LEVEL +

NATURAL SELECTION

COMPATIBILITY X

HTML5

Color Vision

Gene Expression Essentials

Molecule Polarity

Natural Selection

Neuron

pH Scale

Color Vision

Gene Expression Essentials

Molecule Polarity

Natural Selection

Neuron

pH Scale

<https://phet.colorado.edu/>

< Class

Less

Com
Bein



Type
Imm



HIV



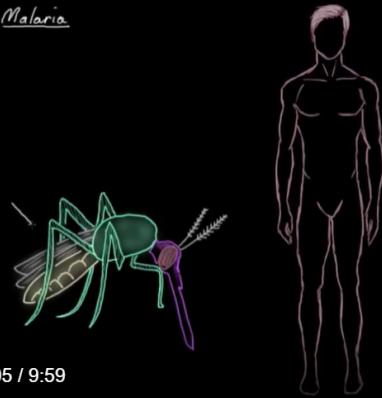
Canc



X

The basics of malaria

Malaria



▶ 0:05 / 9:59



Switch to full player

Next article

<https://www.khanacademy.org/>

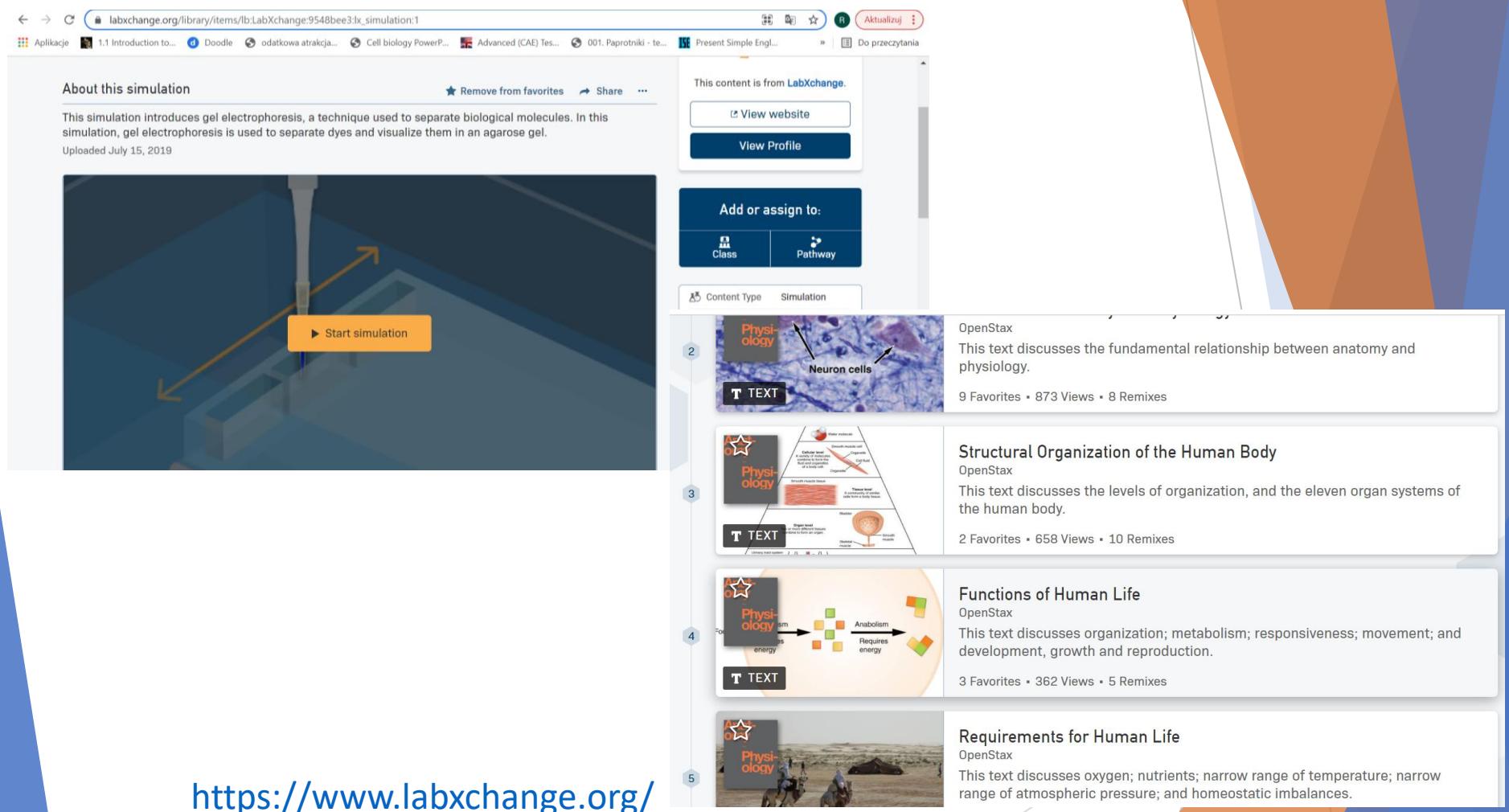
← → C labxchange.org/library/items/lb:LabXchange:9548bee3:lx_simulation:1

Aplikacje 1.1 Introduction to... Doodle odatkowa atrakcja... Cell biology PowerP... Advanced (CAE) Tes... 001. Paprotniki - te... Present Simple Engl... Do przeczytania

About this simulation ★ Remove from favorites Share ...

This simulation introduces gel electrophoresis, a technique used to separate biological molecules. In this simulation, gel electrophoresis is used to separate dyes and visualize them in an agarose gel.

Uploaded July 15, 2019



This content is from **LabXchange**.

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Add or assign to:

Class Pathway

Content Type Simulation

2

Physiology

Neuron cells

T TEXT

OpenStax

This text discusses the fundamental relationship between anatomy and physiology.

9 Favorites • 873 Views • 8 Remixes

3

Physiology

Cellular level: An organism is made of one or more cells. Cell level: Cells are organized into tissues. Tissue level: A collection of similar cells work together to form a tissue. Organ level: Similar tissues work together to form organs. Organ system level: Similar organs work together to form organ systems. Human body level: All organ systems work together to form the human body.

T TEXT

OpenStax

This text discusses the levels of organization, and the eleven organ systems of the human body.

2 Favorites • 658 Views • 10 Remixes

4

Physiology

Anabolism Requires energy

T TEXT

OpenStax

This text discusses organization; metabolism; responsiveness; movement; and development, growth and reproduction.

3 Favorites • 362 Views • 5 Remixes

5

Physiology

Requirements for Human Life

OpenStax

This text discusses oxygen; nutrients; narrow range of temperature; narrow range of atmospheric pressure; and homeostatic imbalances.

<https://www.labxchange.org/>

How to Read a Codon Chart

Studying for finals? Review!



The Amoeba Sisters

Captions are on! Click CC at bottom right to turn off!

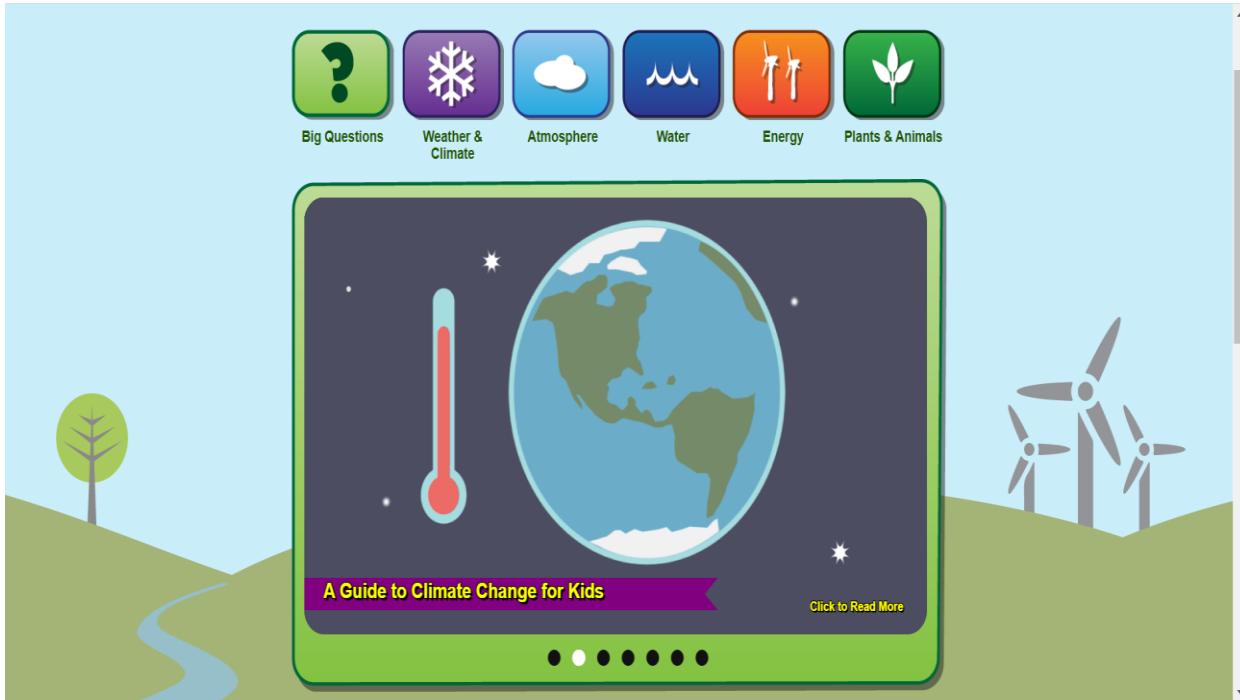


0:02 / 7:49 • Intro >



<https://www.youtube.com/watch?v=LsEYgwuP6ko>

<https://climatekids.nasa.gov/>



Narzędzia TIK

<https://docs.google.com/>

Pytania Odpowiedzi



Why are cells small?

The video answers a series of questions: 1) Why are cells small? 2) How has giant elephant ears evolved? 3) How can flatworms survive without a circulatory or respiratory system? 4) How is the evolution of huge whales? 5) Why do we have an instinct to keep our hands close to our bodies when it gets cold? Watch the video below.



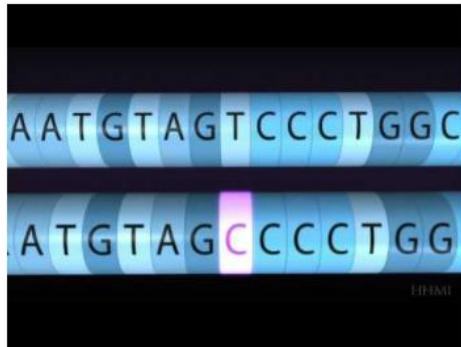
Got Lactase?

give me your name

Tekst długiej odpowiedzi



see the material <https://en.wikipedia.org/wiki/Lactase> and watch a movie



<https://docs.google.com/forms/d/1asJr94GX7XLEsDfahRlbInpsTkKnPQlAbmRanrnqtms/edit>

Webquest

Clilstore     

?  en 

National parks of Poland-to create or not that is the question

Introduction



from Imgflip Meme Generator

<https://clilstore.eu/wordlink/?navsize=1&sl=en&url=https://clilstore.eu/clilstore/page.php?id=9471{and}hl=en>

All words* in the webpage on the left have been linked via Multidict to a selection of dictionaries.
(*Except possibly for words which are part of an existing link).

If a word appears with a black background when you hover over it, then you can click on it to look it up in a dictionary.

Multidict will allow you to swap easily to different dictionaries and different target languages if you wish.

17



New Download Image

Save to Cloud

Help

What's New

Lubię to! 1,2 tys. Ud

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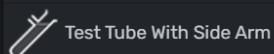
Search apparatus

Chemistry

Containers



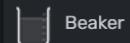
Test Tube



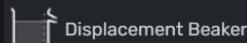
Test Tube With Side Arm



Bung / Stopper



Beaker



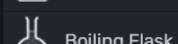
Displacement Beaker



Conical Flask



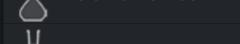
Conical Flask With Side Arm



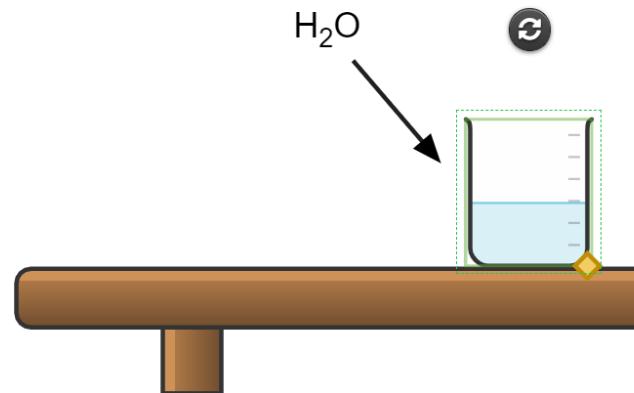
Boiling Flask



Volumetric Flask



Round Bottom Flask



Beaker

PROPERTIES

LIQUID

Width

80

Height

100

Spout



Tools

Appearance

Reset to default

Flip horizontally

Flip vertically

Ordering

25%

50%

100%

150%



Lekcja: Enter

29.10.2021

18

<https://chemix.org/>

link to the tutorial on how to
create a lino



Linoit Tutorial
(7:27)

Play ►



1. Join in 3-person groups
2. Create your own LINO with the selected biomes
3. Include climate, animals, plants, geographical location
4. Use photos, videos, quiz
5. The thesis will be assessed in computer science in terms of effects
6. Eager groups will be able to present their work in the forum and then have a chance to receive a biology grade
7. Don't forget about the bibliography

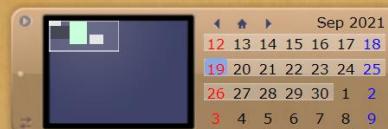
useful site

<https://ucmp.berkeley.edu/exhibits/l>



select biomes and enter the
names of the people in the
group

<https://docs.google.com/docu...usp=sharing>



<http://linoit.com/>

+ Create Cards

Home

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Books

My Classes

My Locker

Bingo Rooms

To edit: click card #

List View

Comments 0

Related Sets

Show: All Cards 10 ✓

1	Lactase	an enzyme that catalyses the hydrolysis of lactose disaccharide into its two components - glucose and galactose. It is produced by animals, plants and fungi.
2	Lactose	milk sugar C12H22O11 - an organic chemical compound from the group of carbohydrates, a disaccharide composed of D-galactose and D-glucose, linked by a β -1,4-glycosidic bond. It is found in milk.
3	Agar-agar	It is made from algae (Rhodophyta). It is used as a natural, tasteless gelling agent to replace gelatin
4	Diffusion	spontaneous mixing of various substances with each other due to the movement of particles.
5	the surface-to-volume ratio decreases as the cell grows.	if the cell size rises above a certain limit, insufficient material will be able to pass through the membrane quickly enough to accommodate the increased cell volume. In this case, the cell must divide into smaller cells with f Misses: 0 Remaining: 10

The maintenance of lactase secretion in adults is genetic and varies between populations.

increasing the surface area to volume ratio

flat animals have a very high surface area to volume ratio

As a result, lactose is fermented by the intestinal flora, which often causes abdominal pain, diarrhea, flatulence and other gastrointestinal symptoms, collectively referred to as intolerance.

It is most common in northern Europe, in some African peoples, nomads who have been drinking sweet milk for a long time. The trait is due to mutations in the intron regions of the MCM6 gene that affect the expression of the LCT gene. In Europe, two mutations can read more about it.

milk sugar C12H22O11 - an organic chemical compound from the group of carbohydrates, a disaccharide composed of D-galactose and D-glucose, linked by a β -1,4-glycosidic bond. It is found in milk.

Lactose

declining surface area to volume ratio

Lactase production ceases in some people between the ages of 2 and 12.

therefore, the diffusion of oxygen and carbon dioxide in water can be very fast

an enzyme that catalyses the hydrolysis of lactose disaccharide into its two components - glucose and galactose. It is produced by animals, plants and fungi.

if the cell size rises above a certain limit, insufficient material will be able to pass through the membrane quickly enough to accommodate the increased cell volume. In this case, the cell must divide into smaller cells with favorable surface / volume ratios or cease to function.

Diffusion

Lactase

the surface-to-volume ratio decreases as the cell grows.

reduces diffusion

facilitates diffusion

spontaneous mixing of various substances with each other due to the movement of particles.

<https://www.easynotecards.com>

https://www.easynotecards.com/notecard_set/121407

jamboard.google.com/d/1PrEN9aiiblIPCUP968HwairWnrAjrO22LJO1GeNmDjE/viewer?f=1

Aplikacje 1.1 Introduction to... Doodle odatkowa atrakcja... Cell biology PowerP... Advanced (CAE) Tes... 001. Paprotniki - te... Present Simple Engl... Do przeczytania

endocrine system2m

2 / 6

Udostępnij

Otwórz na Jamboardzie

Hormones
that control
metabolism
and problems

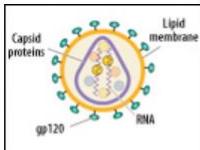
<https://jamboard.google.com/>



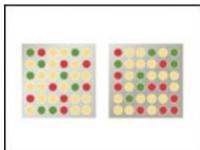
Life Cycle of an Angiosperm



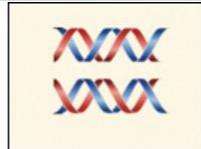
Harvesting Light



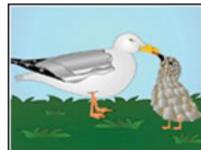
Life Cycle of HIV, a Retrovirus



DNA Microarray Technology



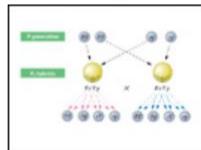
The Meselson-Stahl Experiment



Simple Stimuli Trigger Fixed Behaviors



Gel Electrophoresis



Mendel's Law of Independent Assortment and Gamete Diversity

Discover Create Support

Why is biodiversity so important? - Kim Preshoff



2,445,407 Views

126,999 Questions Answered

TEDEd Animation

Let's Begin...

Our planet's diverse, thriving ecosystems may seem like permanent fixtures, but they're actually vulnerable to collapse. Jungles can become deserts, and reefs can become lifeless rocks. What makes one ecosystem strong and another weak in the face of change? Kim Preshoff details why the answer, to a large extent, is biodiversity.



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Think

Dig Deeper

Discuss

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1695

Create and share a new lesson based on this one

TEDEd

Discover Create Support

Subjects All Subjects ^

All Subjects

The Arts

Business & Economics

Design, Engineering &

Technology

Health

Literature & Language

Mathematics

Philosophy & Religion

Psychology

Science & Technology

Social Studies

Teaching & Education

Thinking & Learning

A other history or goals



THE FASCINATING HISTORY OF
CEMETERIES



THE TAXONOMY OF CANDY



HOW DID DRACULA
BECOME THE WORLD'S
MOST FAMOUS
VAMPIRE?



What is Dia de los Muertos, the



SALEM WITCH
TRIALS

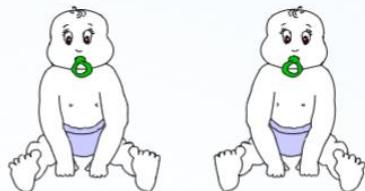


How to make your writing
suspenseful

<https://ed.ted.com/lessons/why-is-biodiversity-so-important-kim-preshoff>

Cloning 101

When a couple has identical twins (or identical triplets, etc.),
the children are clones of one another.



A plant cutting can also be used to generate a clone.



<https://dnalc.cshl.edu/resources/animations/cloning101.html>

[LearningApps.org](https://learningapps.org/)

Search in Apps | Browse Apps | Create App | Create collection | Login

What is LearningApps.org?
Show Tutorial

The screenshot shows a collection of pinned app cards on a yellow background:

- A card with a play button icon and the text "LearningApps.org".
- A card with a globe and green virus particles.
- A card with the text "teacherletan jimdo.com".
- A card with a cartoon character of an elderly woman holding a tray of cookies.
- A card with a table comparing two items, likely for a language learning app.
- A card with a diagram of a wave.
- A card with a sunset landscape image.

<https://learningapps.org/>

← → × [baamboozle.com/game/373678](https://www.baamboozle.com/game/373678)

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32

My Library Games News

Unlock Baamboozle +

GAME PREVIEW

cell

Game Code: 373678 ⓘ

English 12 Public

cell

Hide

Play

Study

Slideshow

Edit

▼ 15

nucleus

Cell membrane

✓ 15

Pricing Contact us Sign in Sign Up for Free

Baamboozle

Make education

<https://www.baamboozle.com/game/373678>

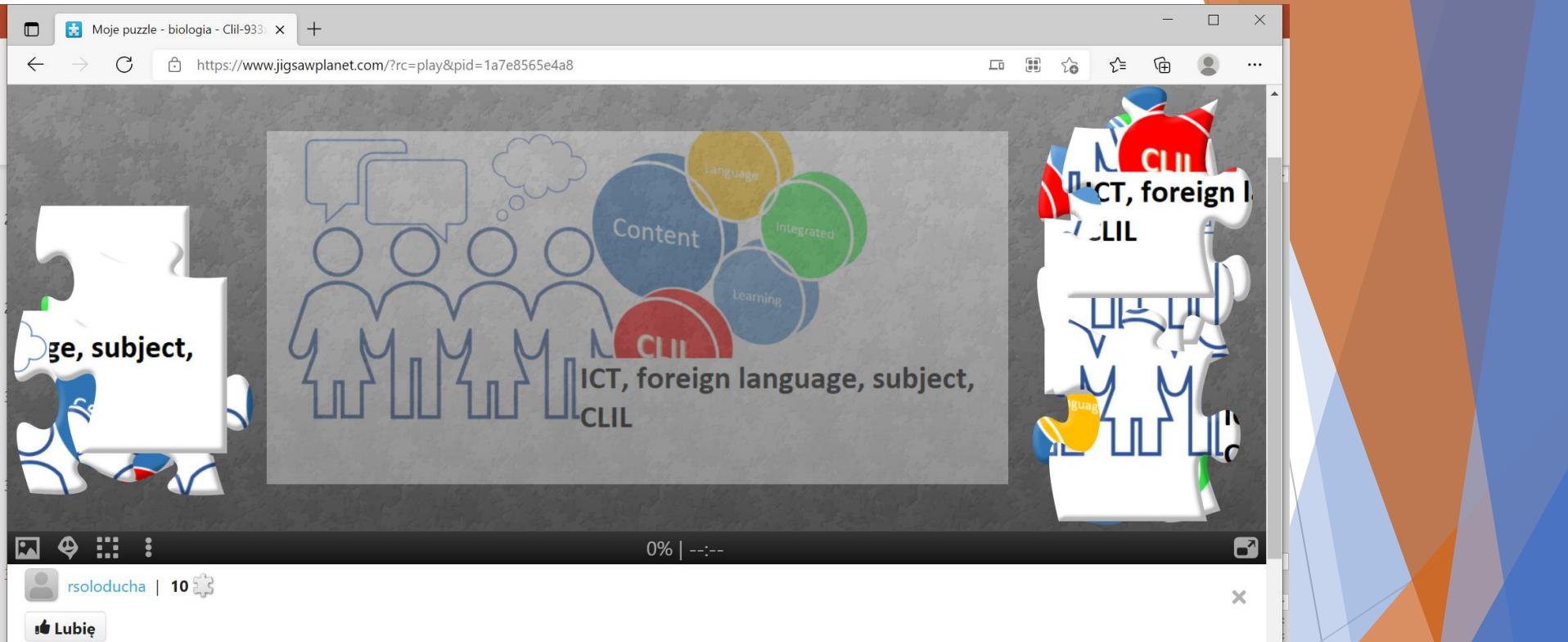


SKIN



Escape room

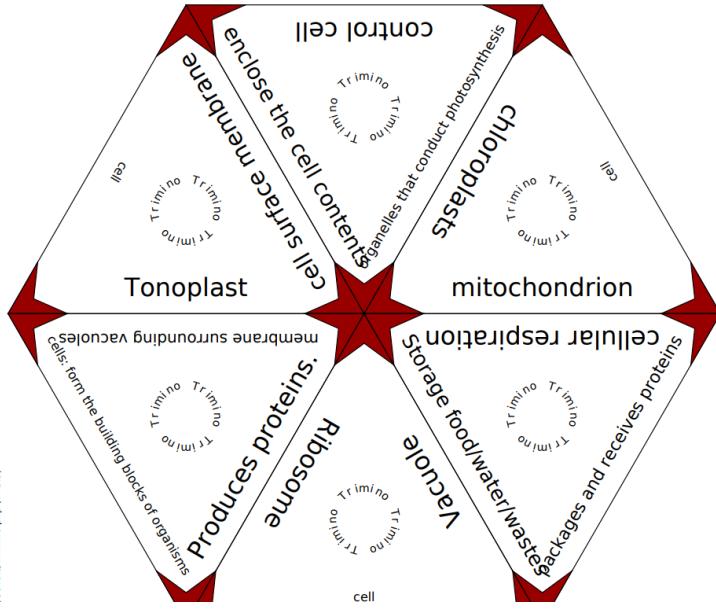
<https://sites.google.com/>



<https://www.jigsawplanet.com/?rc=play&pid=1a7e8565e4a8>

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

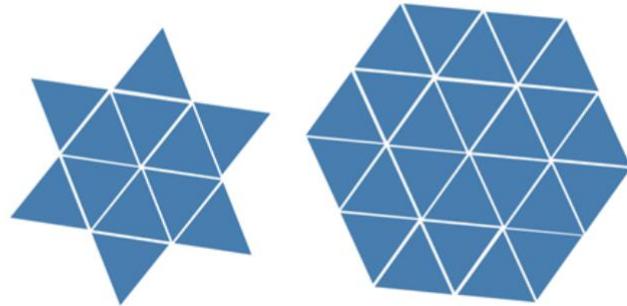
[clil-933x445.png \(933x445\) \(educationtrainingnetwork.com\)](clil-933x445.png (933x445) (educationtrainingnetwork.com))



DO DRUKU

<http://schule.paul-matthies.de/Trimino.php>

TRIMINO GENERATOR



Niebezpieczona | schule.paul-matthies.de/Trimino.php

Triminotyp: Stern (12 Teile, 12 Begriffspärchen)

Schriftarten: Sans Serif

Schriftfarbe: #000000

Eckfarbe: #9B0000

Als Download?

Begriffe eingeben

Einstellungen zurücksetzen

Trimino

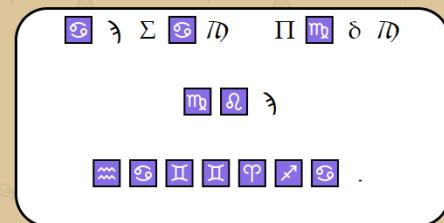
Trimino ist eine Variante des alt bekannten Domino-Spiels. In der hier vorhandenen Varianten müssen die Spielsteine so aneinander gelegt werden, dass aufeinander treffende Seiten zusammenpassen. Je nach Variante entsteht ein Stern, ein Dreieck oder ein Sechseck.

Für die Schule eignen sich Triminos als Aufgabenformat zum Üben und Festigen. Vorteil: die Schülerinnen und Schüler können sich durch das Entstehen der Zielfigur selbst kontrollieren.



Secret Message Generator

Secret Message



Φ	ζ	Θ	ι	Γ	ξ	Ε	Ζ	Φ	Ω	Υ	ο
Α	Β	Κ	Δ	Ε	Φ	Ή	Ι	Κ	Λ	Μ	
η	μ	Η	ι	π	Π	Σ	δ	Ψ	Ο	Π	Λ

Click the letters above to remove hints.

Parameters

Title <input type="text"/>	Symbols Etched (Normal) <input type="button"/>	Decor Style Simple Border <input type="button"/>
Message <input type="button"/>	Legend Color <input type="button"/>	Decor Image (URL) <input type="button"/>

<http://www.theteachersroom.net/secretmessage/secretmessage.html>

Generator krzyżówek

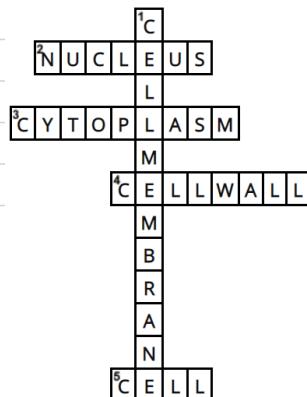
Wprowadź hasła wraz z opisami lub wylosuj hasła korzystając z przycisków poniżej.

Po wpisaniu hasła system pobierze jego definicję z bazy danych Słownosieć. Jeśli hasło ma kilka definicji, pojawią się dodatkowe przyciski (1-9), naciśnięcie których spowoduje wyświetlenie kolejnych opisów haset.

Wylosuj hasła i opisy w języku polskim

Wylosuj hasła i opisy w języku angielskim

01	cell	(biology) the basic structural and functional unit of all organisms; they may exist as independent units	1 2 3 4 5 6 7
02	Hasło 2	Opis hasła 2	
03	Hasło 3	Opis hasła 3	
04	Hasło 4	Opis hasła 4	cell
05	Hasło 5	Opis hasła 5	
06	Hasło 6	Opis hasła 6	
07	Hasło 7	Opis hasła 7	
08	Hasło 8	Opis hasła 8	
09	Hasło 9	Opis hasła 9	
10	Hasło 10	Opis hasła 10	



Wygeneruj krzyżówkę

Poziomo:

2. the central structure of the lens that is surrounded by the cortex
3. the protoplasm of a cell excluding the nucleus; is full of proteins that control cell metabolism
4. a rigid layer of polysaccharides enclosing the membrane of plant and prokaryotic cells; maintains the shape of the cell and serves as a protective barrier
5. (biology) the basic structural and functional unit of all organisms; they may exist as independent units of life (as in monads) or may form colonies or tissues as in higher plants and animals

Pionowo:

1. a thin membrane (a double layer of lipids) enclosing the cytoplasm of a cell; proteins in the membrane control passage of ions (like sodium or potassium or calcium) in and out of the cell; "all cells

Zapraszam do wymiany doświadczeń

answergarden.ch/2139359

.1 Introduction to... Doodle odaktowa atrakcja... Cell biology PowerP... Advanced (CAE) Tes... 001. Paprotniki - te... Present Simple Engl... »

AnswerGarden 



TIK w nauczaniu dwujęzycznym

Type your answer here...

Submit

40 characters remaining

<https://answergarden.ch/2139359>



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Prezentacje

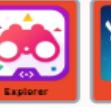
Interaktywne gry i aktywności
Mapy myśli/ informacja zwrotna
Rozszerzona rzeczywistość

Białe tablice

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Inne

Testy i quizy
Karty pracy
Komunikacja
Przechowywanie



lub tu --->



by Wojciech Wątor & Ksenia Erdmann

