

AURTEN BAI FUNDAZIOA

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Mondragon Unibertsitatea

BILBON, 2019ko otsailaren 21ean



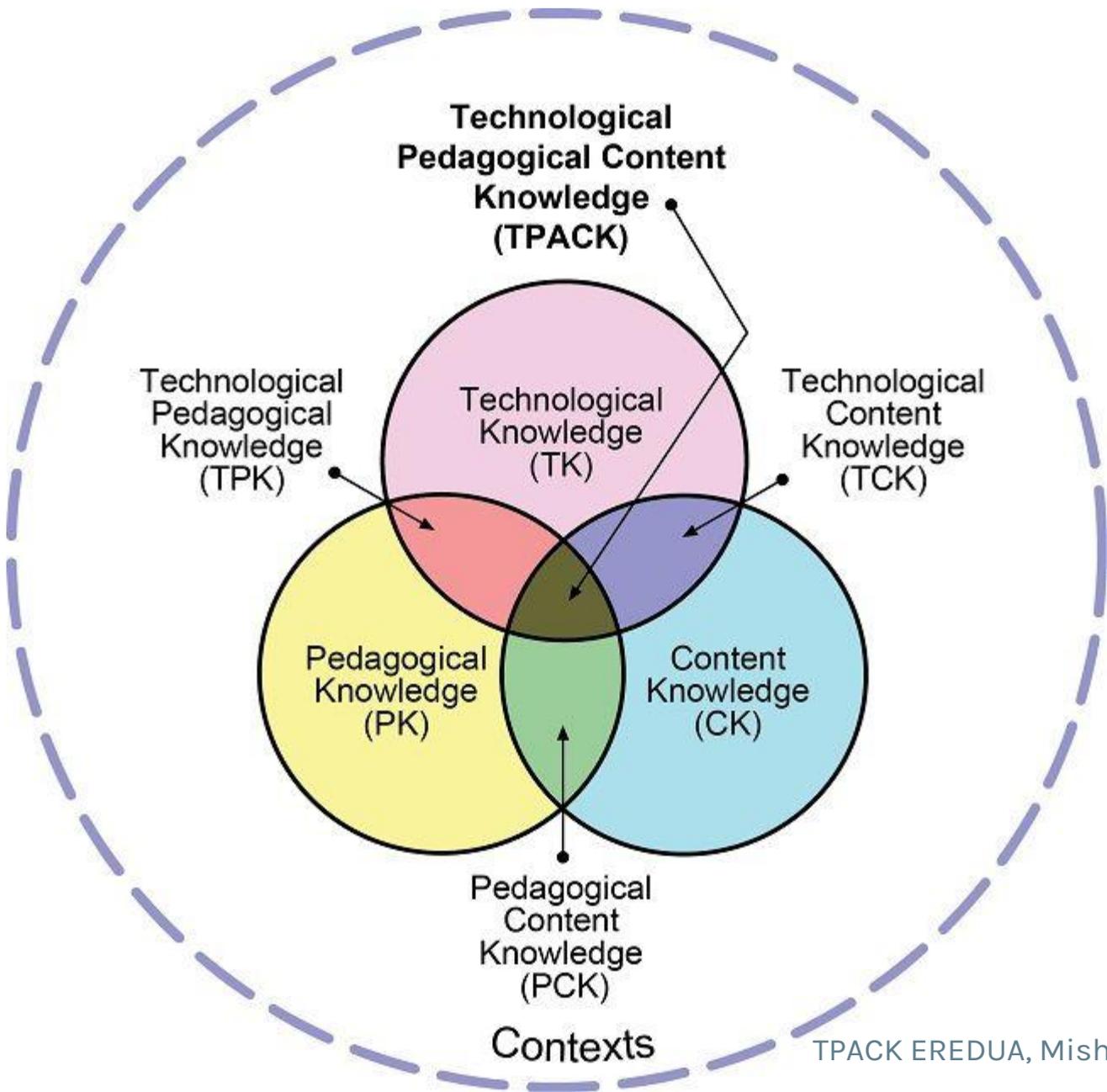
# TEKNOLOGIAREN **AUKERAK** HIZKUNTZEN I(RA)KASKUNTZAN



A large, solid green diagonal shape that starts from the top right and extends towards the bottom left, creating a split background of white and green.

# TEKNOLOGIA INTEGRATZEKO EREDUAK

# Teknologia integratzeko ereduak: TPACK



TPACK EREDUA, Mishra & Koehler



Teknologia integratzeko ereduak:  
SAMR

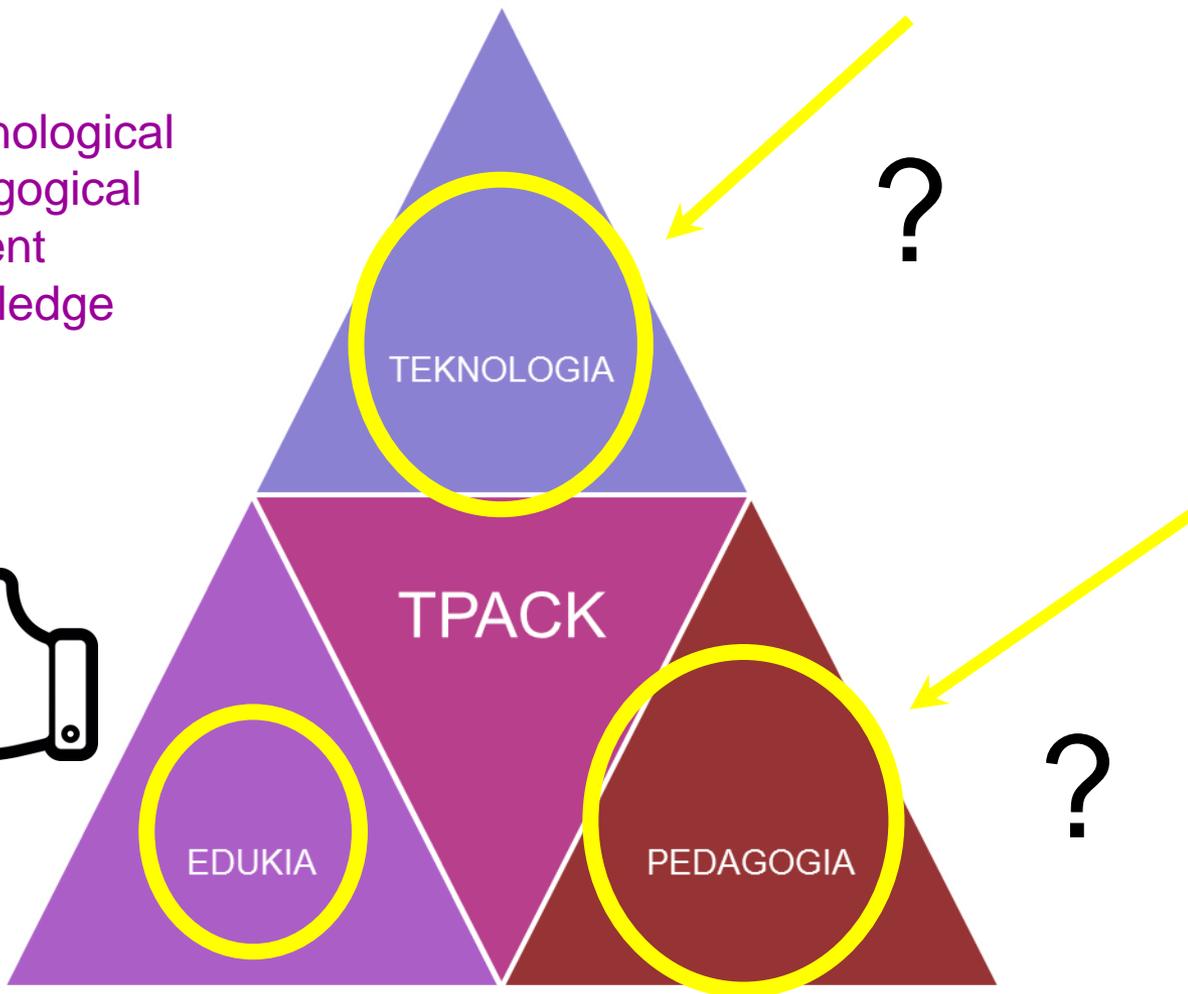
ERALDAKETA

HOBEKUNTZA

<p><b>R</b>edefinición eraldatzeko</p>	<p>La tecnología permite la creación de nuevas tareas, antes inconcebible</p>	<p>Beste euskaltegi batekoekin elkarlanean blog bat mantendu, bideokonferentziak egin, testua animazio bihurtu eta ahozko kontakizuna sartu...</p>
<p><b>M</b>odificación aldatzeko</p>	<p>La tecnología permite el rediseño importante de la tarea</p>	<p>Testua elkarlanean osatu eta gelako blogean argitaratu besteen iruzkinak jasotzeko.</p>
<p><b>A</b>umento areagotzeko</p>	<p>La tecnología actúa como un sustituto directo de la herramienta con cierta mejora funcional</p>	<p>Testua digitalki idatzi eta, hodeian lan eginez, irakasleak zuzenketak eta iruzkinak bertan idatzi, EGA azterketak online egin eta erantzun zuzenak jaso...</p>
<p><b>S</b>ustitución ordezkatzeko</p>	<p>La tecnología actúa como un sustituto directo de la herramienta sin mejora funcional</p>	<p>Testu bat idatzi: lehen orri batean, orain ordenagailuan.</p>

Ruben R. Puentedura

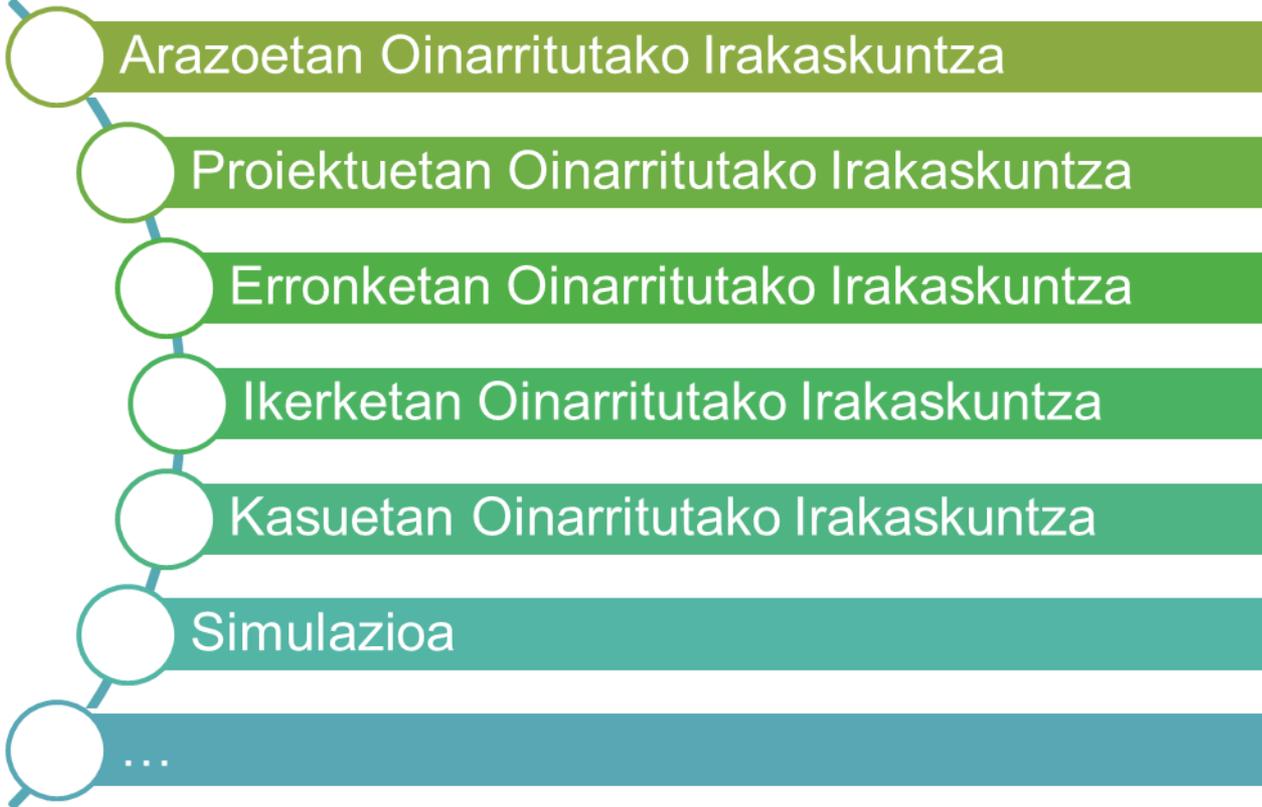
Technological  
Pedagogical  
Content  
Knowledge



EUSKARA

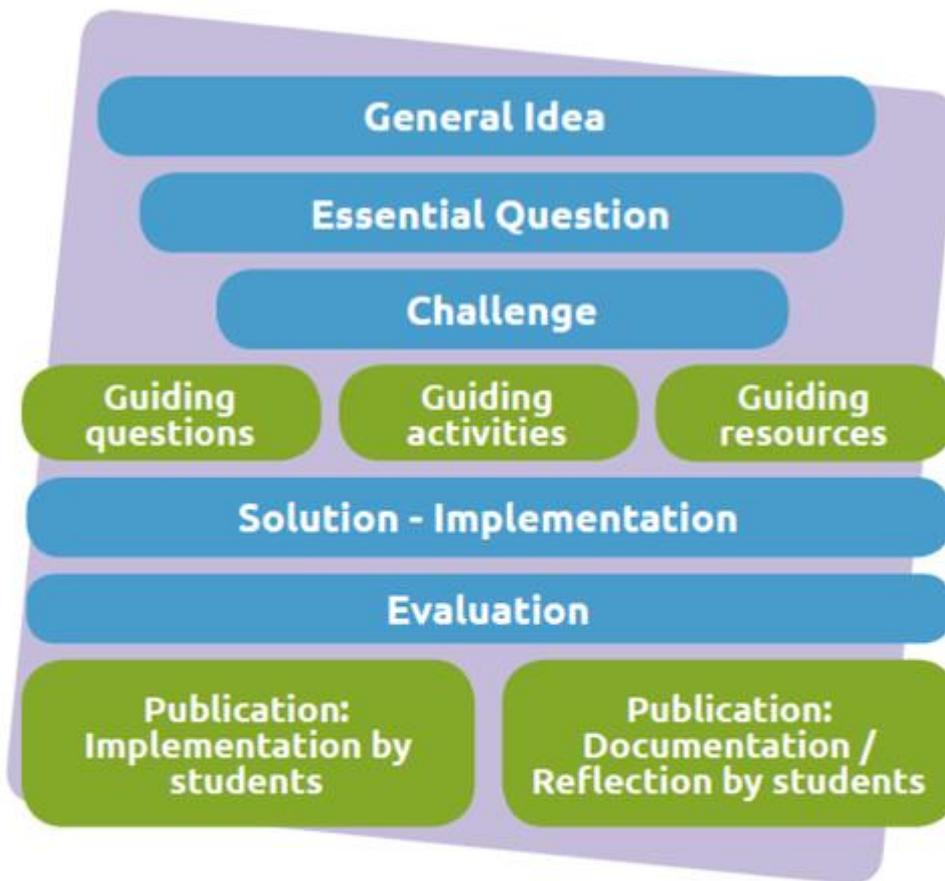
A thick, bright yellow diagonal stripe runs from the top right towards the bottom left, separating the white background on the left from a solid yellow background on the right.

# **PEDAGOGIA: METODOLOGIA BERRIAK**

- 
- Arazoetan Oinarritutako Irakaskuntza
  - Proiektuetan Oinarritutako Irakaskuntza
  - Erronketan Oinarritutako Irakaskuntza
  - Ikerketan Oinarritutako Irakaskuntza
  - Kasuetan Oinarritutako Irakaskuntza
  - Simulazioa
  - ...



# ERRONKETAN OINARRITUTAKO IKASKUNTZA



**Methodological Framework of  
Apple's Challenge Based Learning (2011)**

- Agertokia
- Taldeko lana
- Bakarkako lana
- Arazoak konpontzea
- Mundu errealean oinarrituta
- Ezagutza berriak

BLOOM

SORTU

EBALUATU

AZTERTU

APLIKATU

ULERTU

GOGORATU

## MAPA DE LA TAXONOMÍA DIGITAL DE BLOOM

Términos clave

Crear

Verbos

### Habilidades de Pensamiento de Orden Superior

**Diseñar, construir, planear, producir, idear, trazar, elaborar, programar, filmar, animar, blogear, video blogear (video blogging), mezclar, remezclar, participar en un wiki (wiki-ing), publicar, "videocasting", "podcasting", dirigir, transmitir.**

Evaluar

Verbos

**Revisar, formular hipótesis, criticar, experimentar, juzgar, probar, detectar, monitorear, comentar en un blog, revisar, publicar, moderar, colaborar, participar en redes (networking), reelaborar, probar.**

Analizar

Verbos

**Comparar, organizar, deconstruir, atribuir, delinear, encontrar, estructurar, integrar, recombinar, enlazar, validar, hacer ingeniería inversa (reverse engineering), "cracking", recopilar información de medios. (media clipping).**

Aplicar

Verbos

**Implementar, desempeñar, usar, ejecutar, correr, cargar, jugar, operar, "hackear" (hacking), subir archivos a un servidor, compartir, editar.**

Comprender

Verbos

**Interpretar, resumir, inferir, parafrasear, clasificar, comparar, explicar, ejemplificar, hacer búsquedas avanzadas, hacer búsquedas Booleanas, hacer periodismo en formato de blog (blog journalism), "Twittering" (usar Twitter), categorizar, etiquetar, comentar, anotar, suscribir.**

Recordar

Verbos

**Reconocer, listar, describir, identificar, recuperar, denominar, localizar, encontrar, utilizar viñetas (bullet pointing), resaltar, marcar (bookmarking), participar en la red social (social bookmarking), marcar sitios favoritos (favouriting/local bookmarking), buscar, hacer búsquedas en Google (googling).**

### Habilidades de Pensamiento de Nivel Inferior

### ESPECTRO DE LA COMUNICACIÓN

Colaborar

Moderar

Negociar

Debatir

Comentar

Reunirse en la red

Realizar videoconferencias por Skype

Revisar

Preguntar/Questionar

Contestar

Publicar y blogear

Participar en redes

Contribuir

Chatear

Comunicarse por correo electrónico

Comunicarse por Twitter/Microblogs

Mensajería instantánea

Escribir textos

Los elementos resaltados en **negrita** son verbos reconocidos y ya existentes.  
Los elementos en color azul son nuevos verbos del entorno digital.

TAXONOMIAK IKASTE-EMAITZAK ZEHAZTEKO  
(INGURUNE DIGITALEAN)



**JOERA**  
**TEKNOLOGIKOAK**

	2012	2013	2014	2015
1 urte <	Aplikazioak	MOOCak	Flipped classroom	BYOD
	Tabletak	Tabletak	Learning analitics edo ikaskuntzaren analisia	Flipped classroom
2 edo 3 urte	Jokoan oinarritutako ikaskuntza	Jokoak eta gamifikazioa	3D inprimagailuak	Makerspaces
	Ikaskuntza prozesuaren analisia	Ikaskuntza prozesuaren analisia	Jokoak eta Gamifikazioa	Soinean eramateko (wearable)
4 edo 5 urte	Keinuetan oinarritutako informatika	3D inprimagailuak	Quantified self	Teknologia egokitua
	Gauzen interneta	Soinean eramateko tek.(wearable)	Laguntzaile birtualak	Gauzen interneta

	2016	2017	2018
1 urte <	BYOD	Adaptive Learning Technologies	Teknologia analitikoa
	Ikaskuntzaren analisia eta ikasleei egokitutako ikaskuntza	Mobile Learning	Makerspaces
2 edo 3 urte	Errealitate areagotua eta birtuala	Gauzen interneta Internet of things (IoT)	Adaptive Learning Technologies
	Makerspaces	Next-Generation LMS	Adimen artifiziala
4 edo 5 urte	Informátika afektiboa	Adimen artifiziala	Errealitate mistoa (errealitate areagotua)
	Robotika	Natural User Interfaces	Robotika

# ERRONKAK



- Ikaskuntza formala eta ez formala uztartzea
- Konpetentzia digital eskasa gainditzea



- Konpetentzietan oinarritutako hezkuntza ereduak
- Ikasleei egokitutako ikaskuntza (pertsonalizazioa)



- Irakasleen rola aldatzea
- Bizitza konektatua eta konektatu gabea orekatzea

# BESTELAKO JOERAK





**Flipped learning**

**Hodeia**

**Mobile learning**

**Gamifikazioa**

**Social learning**

**MOOCak**

**JOERAK**

**HIZKUNTZEN IRAKASKUNTZARA EKARRIAK**



**Flipped  
learning**



**JOERAK**

**HIZKUNTZEN IRAKASKUNTZARA EKARRIAK**

# FLIPPED LEARNING THE BIG PICTURE

## HOW IS TIME TRADITIONALLY SPENT IN THE CLASSROOM?

PER ONE HOUR



TIME PER CLASS SPENT LEARNING NEW MATERIAL (MINUTES PER WEEK)



TIME AVAILABLE FOR PROCESSING & UNPACKING CONTENT FOR UNDERSTANDING



## RESEARCH SUPPORTS

ACCESS TO:



RIGOROUS CONTENT



APPROPRIATE TECHNOLOGY



ADULTS WHO CAN SUPPORT THE STUDENT



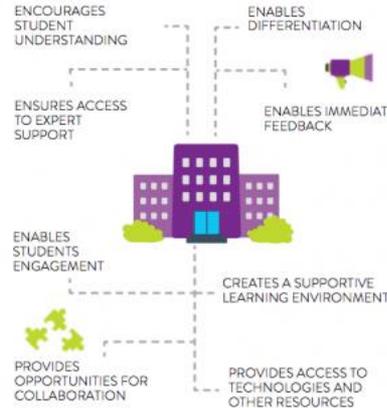
IMMEDIATE EXPERT FEEDBACK

“Focusing on the interplay between technology and pedagogy.”

## FLIPPED LEARNING ENABLES



### IN THE CLASSROOM



### WITH HOMEWORK



“A mindset and philosophy for good pedagogy, that ensures students have an environment aligned with learning resources.”

## Clase tradicional



## Flipped classroom



BEHE-MAILAKO  
PENTSAMENDU  
GAITASUNAK  
NORBERAK  
AURRETIK LANDU  
BIDEOEN ETA BESTE  
BALIABIDE BATZUEN  
BIDEZ



# Arauak lantzen: 'Galdetzaileak eta NAHI partikula'

LESSON CREATED BY **MAITE GOÑI** USING **TED** Ed

VIDEO FROM **Maite Goñi** YOUTUBE CHANNEL

Let's Begin...

Euskaltzaindiaren arauak ikasteko edo errepasatzeko ikastaroa: 'Galdetzaileak eta NAHI partikula'



Watch

Think

Dig Deeper

Discuss

...And Finally

Customize This Lesson

3

Create and share a new lesson based on this one.

<http://ed.ted.com/on/COYbCDGr>

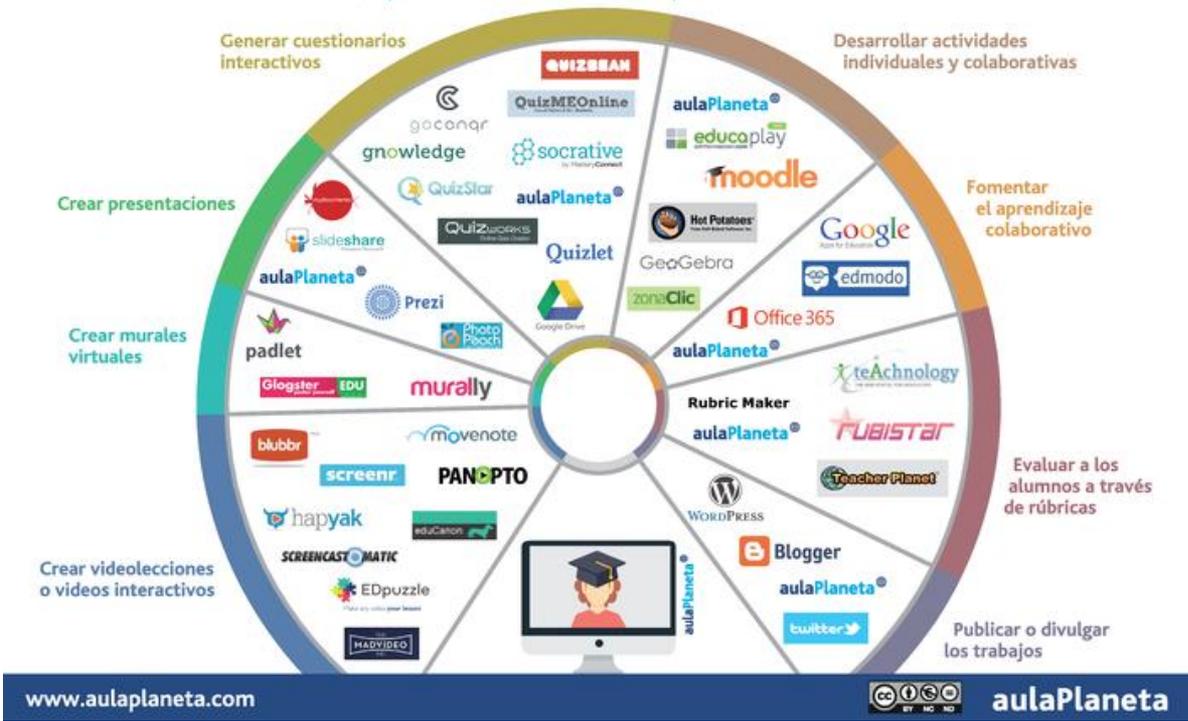


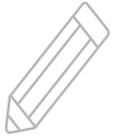
# HAMAIIKA TRESNA:

## 40 herramientas para aplicar la metodología *flipped classroom* en el aula

Si quieres innovar y llevar a la práctica esta metodología, con aulaPlaneta puedes hacerlo de manera muy sencilla. Además, te presentamos otras 40 herramientas para darle la vuelta a tu clase

FLIPPED LEARNING





## HAINBAT ONURA:

- ▶ Goi-mailako gaitasunak aurrez aurre lantzeko denbora gehiago
- ▶ Ikasleek euren erritmoan jaso dezakete ikasgaia, nahi adina aldiz errepikatuz.
- ▶ Irakasleak ikasleen jarraipen estua egin dezake.



**Social  
learning**



**JOERAK**

**HIZKUNTZEN IRAKASKUNTZARA EKARRIAK**



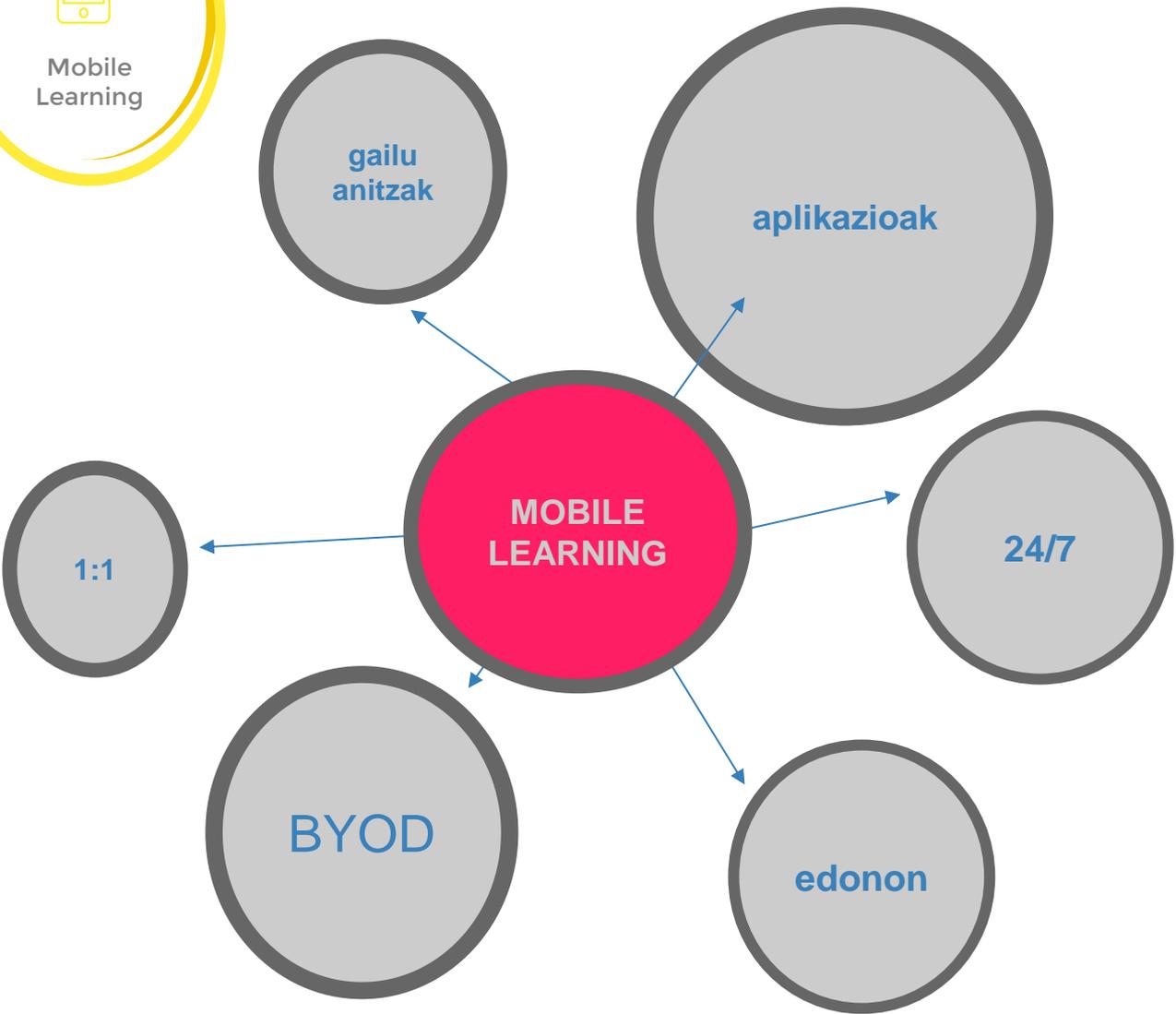


**Mobile  
learning**



**HIZKUNTZEN IRAKASKUNTZARA EKARRIAK**

# Mobile learning



# Mobile learning



Bideokonferentziak  
egin

Bideoak,  
argazkiak,  
audioa ikusi /  
entzun /grabatu

Liburu  
digitalen  
edukia  
kontsultatu

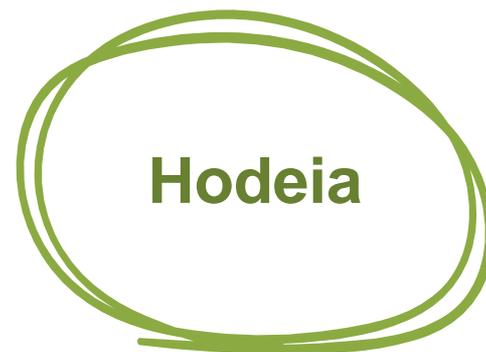
ML

Zereginak  
antolatu

Apunteak  
hartu

Ordutegiak/  
egutegiak  
kudeatu

Buru-mapak  
sortu



**Hodeia**



**HIZKUNTZEN IRAKASKUNTZARA EKARRIAK**

# Hodeian

**hodeian?**

gorde

elkarlanean  
aritu

berreskuratu

24/7

kudeatu

tabletak

partekatu

Web 2.0 aplikazioak

Google suite  
eta beste

mugikorrak

datuak  
non?



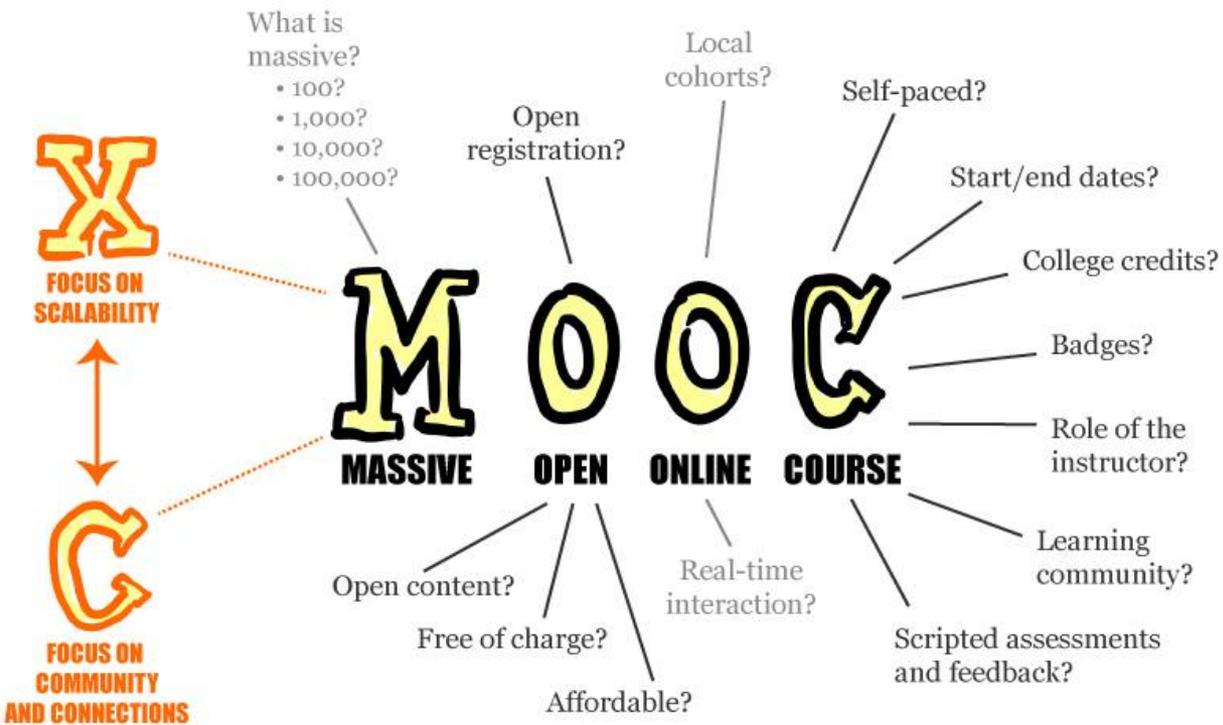
HIZKUNTZEN IRAKASKUNTZARA EKARRIAK

# Gamifikazioa





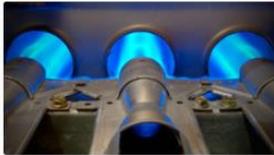
HIZKUNTZEN IRAKASKUNTZARA EKARRIAK





C++ For C Programmers,  
Part A

FECHA: 29-08-2016



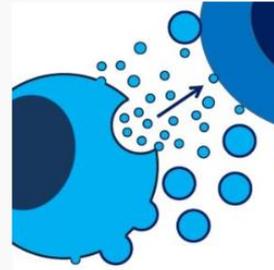
Introduction to  
Thermodynamics:  
Transferring Energy from  
Here to There

FECHA: 05-09-2016



Alternative Approaches to  
Valuation and Investment

FECHA: 05-09-2016



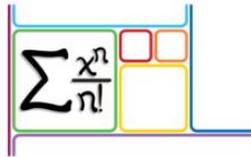
Basics of Extracellular  
Vesicles

FECHA: 12-09-2016



Seguridad  
agroalimentaria

FECHA: 19-09-2016



Single Variable Calculus

FECHA: 12-09-2016



Architecting Smart IoT  
Devices

FECHA: 05-09-2016



Advanced Java  
Concurrency

**Coursera**

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Home > Language Learning > Other Languages

# Chinese for Beginners

**About this course:** Nowadays, there is an increasing number of people who are interested in Chinese culture and language. And it is useful to know about the language when coming to China for travel or business. This is an ABC Chinese course for beginners, including introduction of phonetics and daily expressions. After taking this class, learners can have a basic understanding of Chinese Mandarin and make basic conversations of daily living such as exchanging personal information, talking about daily arrangements and food, asking about price, introducing the city and the weather, telling your hobbies etc. Selected topics and situations come from real life scenarios and can be used for everyday communications. In addition to the dialogues, the selection of reading materials and practice activities will make the content as rich and varied as possible, in order to stimulate the learners' interests. This is an elementary course on Chinese speaking. The learners don't need to study Chinese characters, so it is easier to follow and complete this course.

**Chinese for Beginners**

**Enroll Now**  
Starts Sep 07

Future Learn

Courses Programs

USALMOOC. Español Salamanca A2

Lorena Dominguez  
Universidad de Salamanca  
Profesora

Me gusta 17

### Descripción

Distribuido en 6 módulos, el curso se orienta más hacia la comunicación y la interacción social que al dominio de los recursos formales de la lengua española: el objetivo final del curso es proporcionar a los seguidores los medios para resolver tareas o problemas básicos de la vida cotidiana usando el español como instrumento.

**MOOC-AK**  
**hizkuntzak**  
**ikasteko**

FREE ONLINE COURSE

# Introduction to Dutch

Learn to speak, write and understand basic Dutch, with this free, three-week, introductory foreign language course.

**Join now – starts 14 Nov**

Search Sign in Register

coursera



F/L oeIT Office of Educational Innovation and Technology



2U

FUTURELEARN



edX



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by Blackboard



P2PU

YouTube

udemy

OPEN COURSEWARE CONSORTIUM

elgg

OPEN UNIVERSITIES AUSTRALIA



Joomla



UDACITY

iTunes U  
course-builder

CLASS 2 GO

MOOC-AK NON?



**Datuen  
analisia**

**Errealitate  
areagotua**

**Adimen  
artifiziala**

**Ikaskuntza  
pertsonalizatua**

**Errealitate  
birtuala**

**Laguntzaile  
birtualak**

???

EUSKARAREN I(RA)KASKUNTZARA EKARRI



**Flipped learning**

**Hodeia**

**Mobile learning**

**Gamifikazioa**

**Social learning**

**MOOCak**

???

EUSKARAREN I(RA)KASKUNTZARA EKARRI

# ADIBIDE BATZUK

DUOLINGO

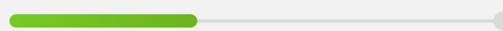
Toma un examen para adelantarte



El examen toma aproximadamente cinco minutos y se adapta a tu nivel según tus respuestas.

NO

EMPEZAR



Escucha y escribe



Why not?

Tu respuesta es correcta

94

Traducción:  
¿Por qué no?

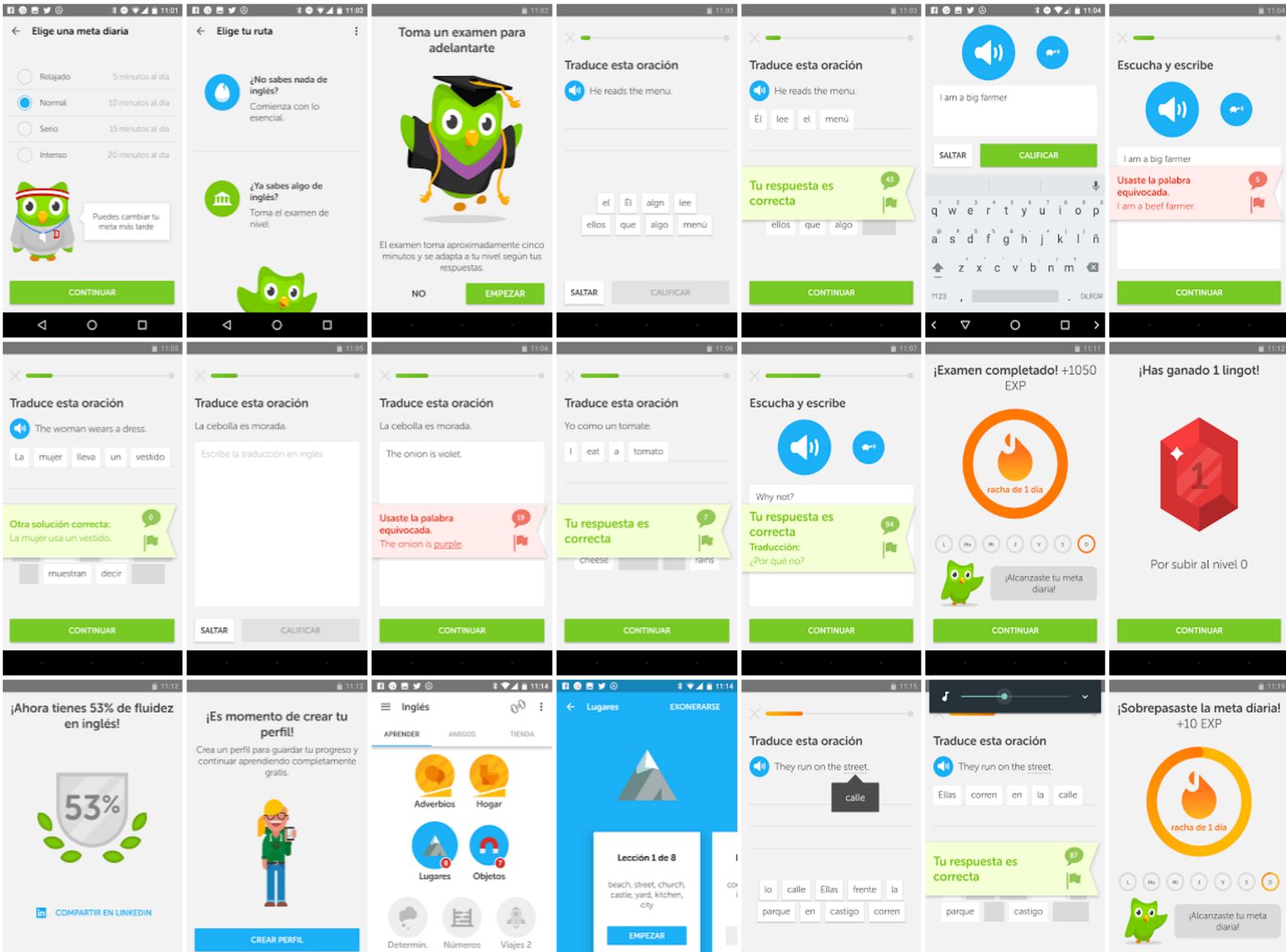
CONTINUAR

¡Sobrepasaste la meta diaria!  
+10 EXP



¡Alcanzaste tu meta diaria!

CONTINUAR



## Meet your virtual language tutors

New bots added regularly



**Chef Roberto**

A legendary pizza maker. Be careful not to insult his creations!



**Renée the Driver**

For what to see and where to go, Renée's the one to know.



**Officer Ada**

From protecting and serving to teaching languages, Ada does it all.



# Habla un idioma dedicando tan solo diez minutos al día

Pruébalo gratis

Cursos de idiomas completos



Lecciones breves, perfectas para la vida diaria, el trabajo y los viajes.

Correcciones de hablantes nativos



Aprende con otros 60 millones de usuarios en todo el mundo.

¡Funcional!



Estudiar idiomas durante 22 horas y media con busuu Premium = 1 semestre universitario

Idiomas que enseñamos



Inglés



Español



Italiano



Francés



Portugués



Turco



Árabe



Polaco



Alemán



Ruso



Japonés



Chino

## Aprenderás:



Comprensión lectora



Expresión escrita

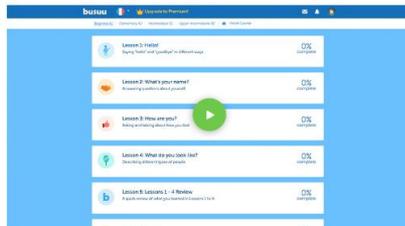


Expresión oral



Comprensión auditiva

Y además, todo el vocabulario y la gramática que necesitas para alcanzar tu objetivo.



Pruébalo gratis

## Premium

- ✓ Tarjetas
- ✓ Ejercicios escritos
- ✓ Correcciones de hablantes nativos
- ✓ Curso de viajes
- ✓ Aplicaciones móviles con modo offline
- ✓ Test y certificados oficiales
- ✓ Ejercicios de gramática
- ✓ Ejercicios de vocabulario
- ✓ Cambiar de idioma

A partir de \$5.41

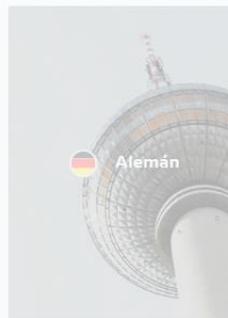
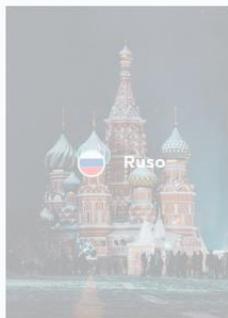
## Gratis

- ✓ Tarjetas
- ✓ Ejercicios escritos
- ✓ Correcciones de hablantes nativos
- 🔒 Curso de viajes
- 🔒 Aplicaciones móviles con modo offline
- 🔒 Test y certificados oficiales
- 🔒 Ejercicios de gramática
- 🔒 Ejercicios de vocabulario
- 🔒 Cambiar de idioma

Pruébalo gratis

Busuu

## Aprender inglés



Nivel principiante

Nivel avanzado

Web aplikazioa  
Mugikorrerako aplikazioa  
Ahozkoa  
Idatzizkoa  
Entzumena  
Irakurmena

Maila eta interesen baitako  
personalizazioa.  
Komunitatea sortzeko aukera.

Con Intercambio de idiomas, puedes aprovechar el poder de las redes sociales y un sin fin de recursos en Internet...



# HelloLingo

Estoy aprendiendo...

Seleccionar ▾

Mi idioma materno es...

Español ▾ +

Quiero aprender con...

Conversación de texto  Conversación de voz  Juegos y más...

Soy antiguo miembro de

Miembro de **SharedTalk**  Miembro de **Livemocha**  **SharedLingo** member

Soy...

Nombre  Apellido

Sexo  Masculino  Femenino

Nacido en...

Mes ▾ Año ▾

De...

País ▾ Ciudad

Más sobre ti

Cuéntanos algo sobre ti: pasatiempos, estudios, intereses, por qué estás aprendiendo idiomas...

Me gustaría ayudar a mejorar HelloLingo

Todo registro se verifica y rechaza si es incorrecto, incoherente o inapropiado.

FIND YOUR TEACHER

## Why italki?



### Customized Learning

—  
Choose from over 5000 teachers for 1-on-1 lessons based on your goals and interests.



### Pay Per Lesson

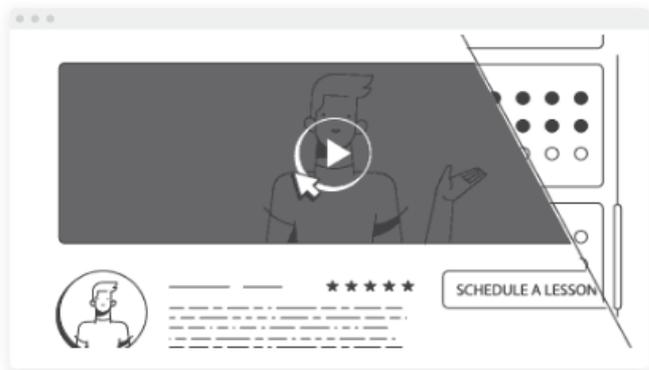
—  
On italki you only pay per lesson and at the price that meets your budget.



### Anytime, Anywhere

—  
Take online lessons at the time and place that suits you.

## How does it work?

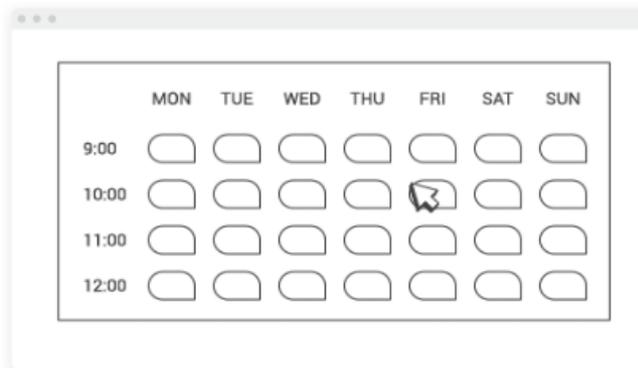


### 1 Choose a teacher

Watch the teacher's video introduction, and read reviews from previous students.

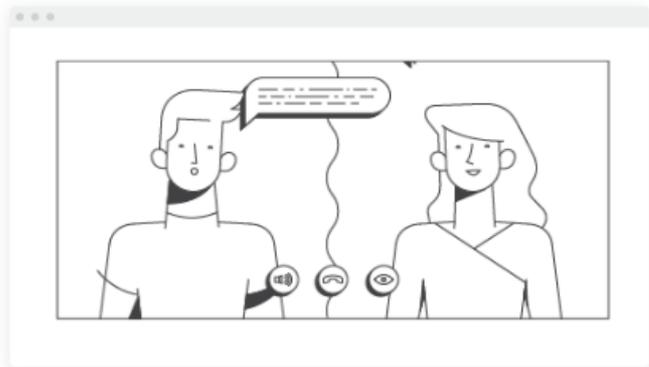
### 2 Choose a date and time

Choose a time that's convenient for you.



### 3 Connect

Take your lesson on Skype or other video chat software.





[gadgets.ndtv.com/](http://gadgets.ndtv.com/)



[www.engadget.com](http://www.engadget.com)



<https://techcrunch.com/>



<http://androidadvices.com>

Ahozkoa: bideotxatak,  
bideokonferentziak...

# FLIPGRID.

Ahozkoa: Flipgrid



<https://flipgrid.com/>



# Pleo - Learn languages

Lab studio Inc. Education

★★★★★ 145

3 PEGI 3

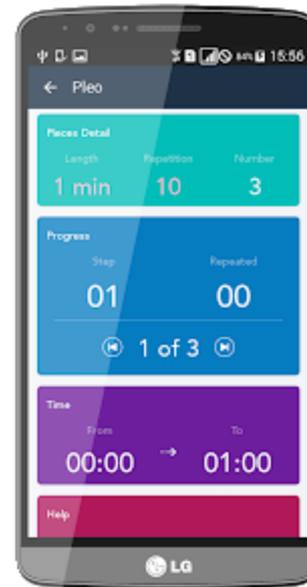
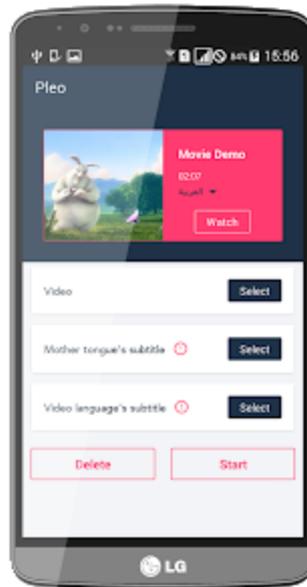
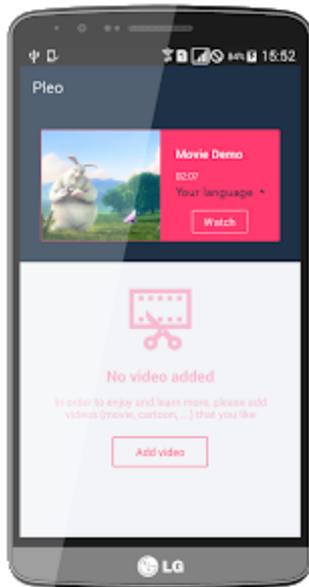
Contains Ads

This app is compatible with all of your devices.

Add to Wishlist

You can share this with your family. [Learn more about Family Library](#)

Install



Azpituluen bidez ikasteko aplikazioa

Ahozkoa: Pleo

# Master Foreign Languages with **Social Phrasebooks**

Discover, Collect and Memorise phrases and collocations of your interest

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## Arguments and debates

Be fluent while discussing, debating, arguing and disputing



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- And, so, **it stands to reason** that the more traffic I get, the more people I will get to click-through to Amazon
- I think they **do a bloody marvellous job**
- **Nice idea, if only there was ...**
- Unfortunately I am a **one man band** and I am having great difficulty testing this.
- **your best bet at this point** is to contact the card issuer

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## Travelling

Useful phrases that can help you make yourself understood in English while travelling. Directions, Hotels, Restaurants ...



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- Follow the red **marked trail**
- How far is it **on foot** ?
- Can you **drop me off** here ?
- Could I **get a lift to ...** ?
- Do you **possibly drive in the direction of**

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## Hotel

This collection is about hotels and accomodation.



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- Hi there! Can I **order a taxi for tomorrow?**
- I'd like to **check in**
- **Have you got anything with an en-suite bathroom?**
- Do you have **any vacancies for tonight?**
- **Can we get some fresh linen and towels for room 10, please**

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## Gradable / Non-gradable adjectives



Aurora

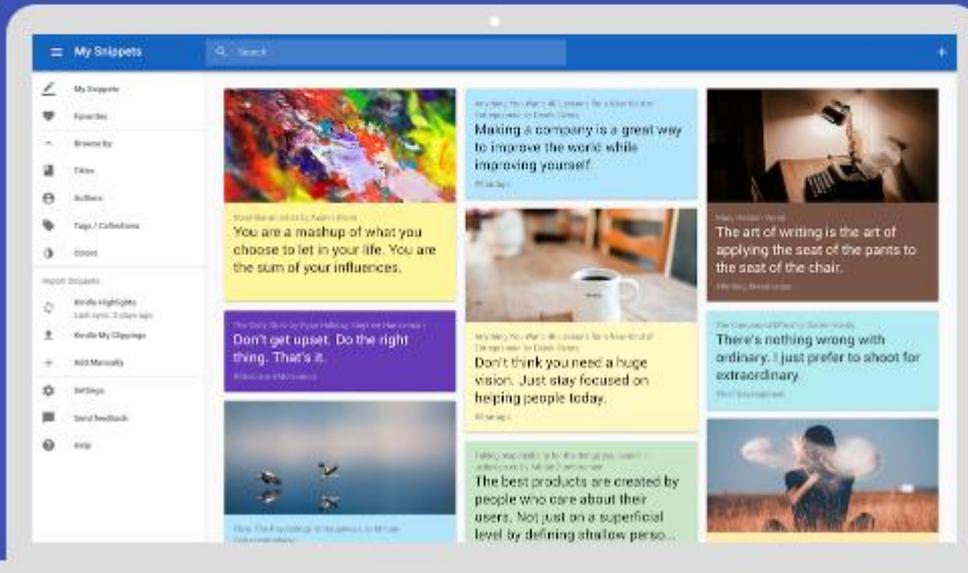
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- And a bland, plastic, synthetic, universal can't-tell-one-brand-of-coffee-from-another-brand-of-coffee by contrast makes life flat, uninteresting, and **essentially uncreative.**
- Even though each of these plants are not only highly nutritious, **they're quite tasty.**
- Hopefully, the new guest pod's heater fares a bit better... **it gets pretty cold** down there at night!
- When you've been toiling through the sucking ooze, with submerged roots and branches grabbing at your ankles, **dry solid ground feels almost miraculous.**
- **It's incredibly elitist to say** that the masses cannot have the intellectual

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## 100 Verbos en inglés de movimiento y acción



ESTUDIAR

JUGAR



APRENDER



FICHAS



ESCRIBIR



ORTOGRAFÍA



PROBAR

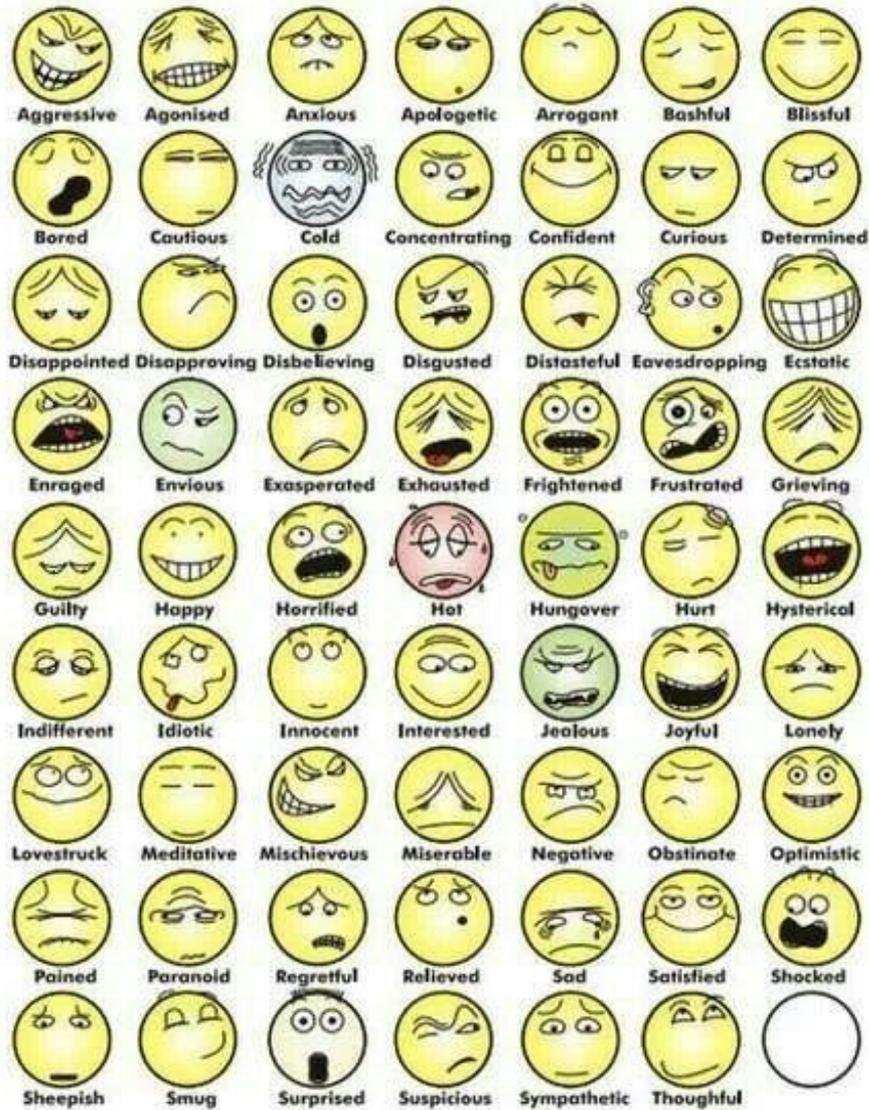


COMBINAR

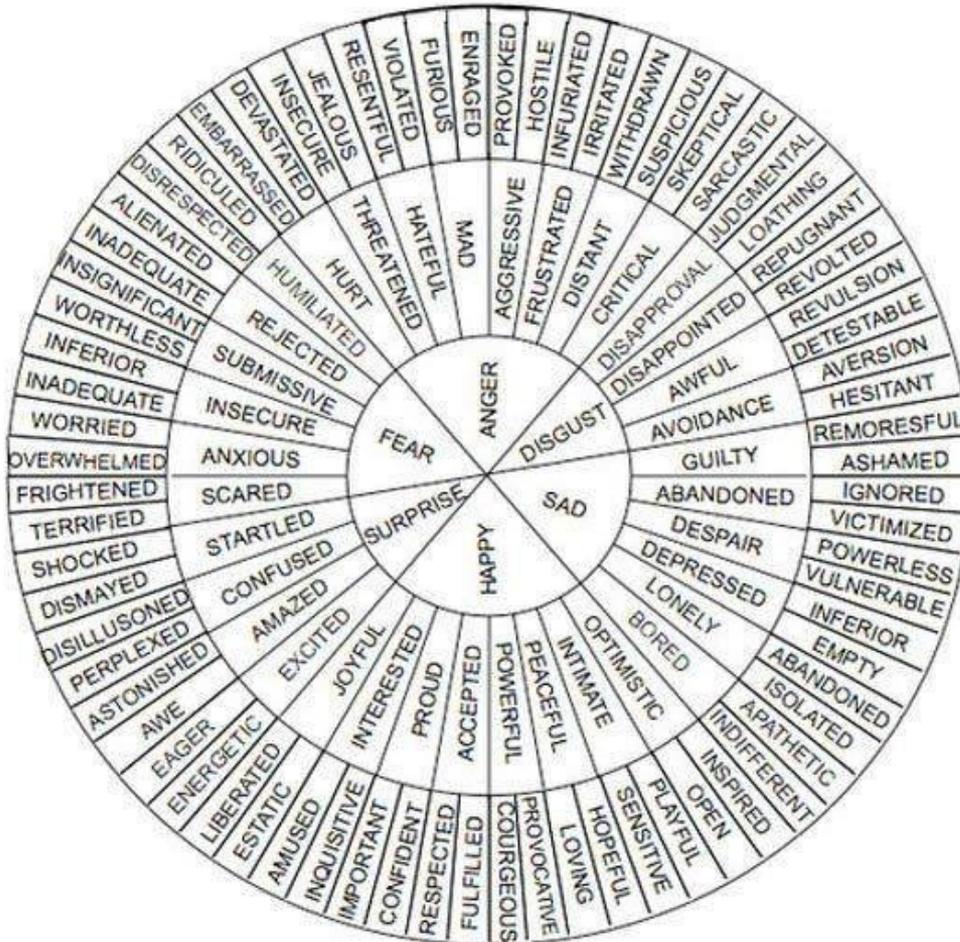


GRAVEDAD

# How do you feel today?



As a writer, this has proven to be a truly valuable chart.



## CLOZE TEST

Paste your text below:

The Huguenot-Walloon half dollar is a commemorative coin issued by the United States Bureau of the Mint in 1924. It marks the 300th anniversary of the voyage of the Nieuw Nederland. Many of the passengers were Protestants, Huguenots from France or Walloons from Belgium; they became early settlers of New York State and the surrounding areas. A bill to authorize the coin passed through Congress without opposition in 1923 and was signed by President Warren G. Harding. Sketches were prepared by Rev. John Baer Stoudt and converted to plaster models by the Mint's chief engraver, George T. Morgan. Of the 300,000 coins authorized by Congress, fewer than half were actually struck, and of these, 55,000 were returned to the Mint and released into circulation. The coin excited some controversy because of its sponsorship by a religious group. The coins are currently valued in the hundreds of dollars, depending on condition.

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 Clues  No clues

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Alas I missed the train.

Add the punctuation

Alas,



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English (Australia)

Scroll Automatically

Word Count: 308

Sentence Count: 12

Readability: 56.36 %

Grade Level: 11.78 years

Reading Time: a minute

It was on the very last evening of my stay at his house that he told the ensuing story to me and Captain Good, who was also dining with him. He had ate his dinner and drunk two or three glasses of old port, just to to help Good and myself to the end of the second bottle. It was an unusual thing for him to do, for he was a most abstemious man, having a great horror of drink from observing it's ministers - hunters, transport riders and others - ed so many years of his life. Consequently ct on him than it would have done on most men, sending a little rush into his rinkled cheeks, and making him talk more freely than usual.

A simpler phrase exists.

This was unusual

Ignore

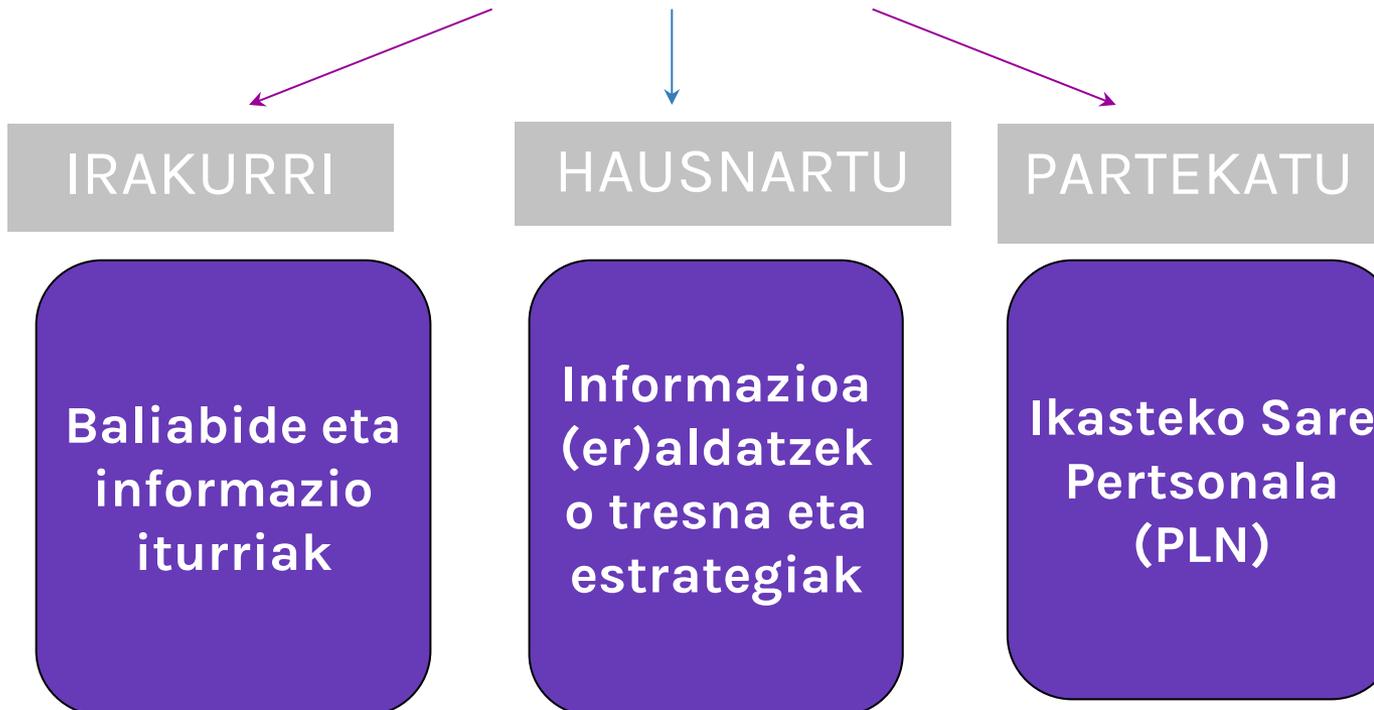
Questions? Chat with us!

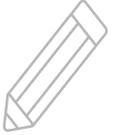
Dear old man! I can see him now, as he went limping up and down the vestibule, with his grey hair sticking up in...



# **ROL** **ALDAKETA**

NORBERAREN  
IKAS-ALORRA





## NORBERAREN IKAS-ALORRA

- ▶ Ikasketa prozesuari heltzeko modu berriak
- ▶ Nork bere helburuak ezarri eta ikaskuntza-irakaskuntza prozesua kudeatu
- ▶ Ikaskuntza formala + informala



**Hello**, my name is James Yorke and I'm an online marketing consultant and web developer based in Kent.

I work with businesses and individuals to get the most from their websites and help them to become known!

DISCOVER HOW I CAN HELP YOU

### From The Blog



#### [My Article on .net Magazine's Website...](#)

An article of mine was recently published on .net magazine's website. The title is "Does every business need a Facebook fan page?" and if this is something you're thinking about...

#### [Domain Name Purchases...](#)

I've recently been purchasing some domain names to build up my portfolio from which I can generate income over time. This could be from selling domains on for a profit, selling advertising or generating...

#### [Nibble.101/Tipple.101 Tuesday at Cosmo Oriental Restaurant in Chatham...](#)

This Tuesday evening, 26th April, Tipple.101 will be happening at Cosmo Oriental Restaurant, Chatham, Kent ME4 4DS. Please don't hesitate to invite likeminds along for social drinks, conversation...

#### [The Importance of Keyword Research Before Starting a Web Project...](#)

This article is inspired by my experience of seeing so many websites and coming across so many web-based projects that have obviously failed to properly analyse a search engine market and/or examine how...

Metodologia  
berriak erabili

Teknologiak  
eskaintzen  
dituen aukerak  
ezagutu

Baliabide  
erakargarriak  
sortu

Ikasleen  
jarraipen  
pertsonalizatua  
egin

Ikaslea motibatu



# HISTORY of eLEARNING

1924



THE FIRST  
"TESTING  
MACHINE"

Ohio State University professor Sidney Pressey invented the "Automatic Trencher," the first device in electronic learning. It was an advanced feature.

1954



THE FIRST  
"TEACHING  
MACHINE"

Harvard professor BE Skinner creates the "Machine" for use in schools.

1960



COMPUTER-  
BASED  
TRAINING

PLATO-Programmed Logic for Automatic Operation-was the first computer-based (CAI) program. It offered drills and the questions. The cost: \$12,000.

1966



C.A.I. IN  
SCHOOLS

Stanford University psychology professor Stephen and Richard C. Atkinson begins a computer-aided instruction (CAI) text reading to young children in Palo Alto schools. Bernard London worked with the University to install the first computer in community college for instructional use.

1969



ARPANET  
HERALDS  
INTERNET

US Department of Defense computer scientists create the Internet.

1970



COMPUTER  
MOUSE &  
G.U.I.

Computer mouse defines "good" (G) begins.

1980s



PC's BEGIN  
WITH THE  
FIRST MAC

Personal computers changes the way we learn.

1990s



THE FIRST  
"DIGITAL  
NATIVE"

The first "digital native" is the person who grows up with a computer recognized as a normal part of life.

2000s



BUSINESSES  
ADOPT  
eLEARNING

Businesses begin to control way to more advanced learning apps.

2010+



SOCIAL,  
ONLINE  
LEARNING

A new wave of digital content Online Content Opportunities learn from or

4 EARTH & THE SOLAR SYSTEM  
▶ PLAY VIDEO

THE BIG BANG STARS LIGHT UP NEW CHEMICAL ELEMENTS

LIFE ON EARTH COLLECTIVE LEARNING AGRICULTURE THE MODERN REVOLUTION

HOW DID EARTH TAKE SHAPE?

After the Sun formed, the remaining matter in the Solar System condensed to create the new star. Some of these swirling whorls formed the planets. Earth, a rocky planet, had just the right conditions for amazing new developments to unfold over its dynamic 4.6 billion-year history.

15 0 0 1/12

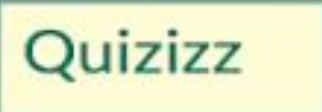
You have 12 questions.

You have 15 seconds  
to answer each question.

Begin!

BALIABIDE ERAKARGARRIAK SORTU  
EDOTA ERABILI

## 12 Great Formative Assessment Tools for Teachers

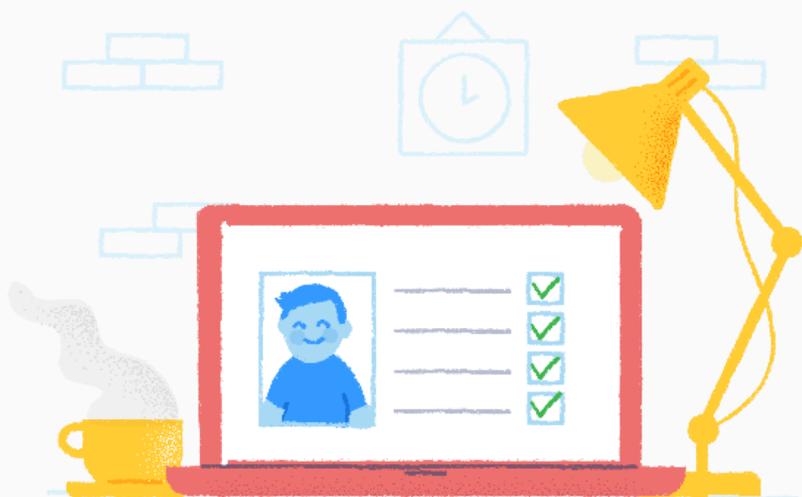
[www.educatorstechnology.com](http://www.educatorstechnology.com)



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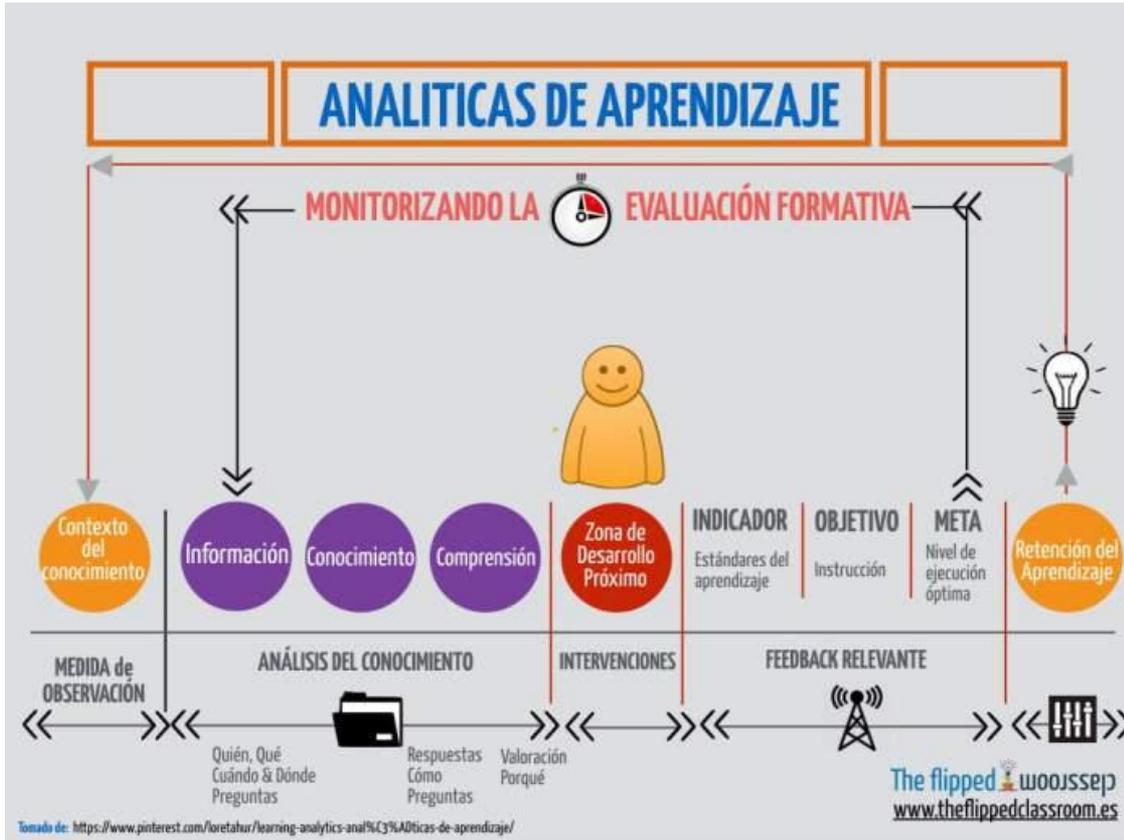
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DATUAK JASO ETA AZTERTU,  
HOBEKUNTZA SUSTATZEKO



3. IRUDIA: DIGCOMPEDU GAITASUNAK ETA HAIEN ARTEKO LOTURAK



**NON GAUDE?**

**ZERBAIT ALDA  
DAITEKE?**



METODOLOGIA?

BALIABIDEAK?

GAILUAK,  
PLATAFORMAK,  
ESPAZIO ETA  
DENBORAREN  
ANTOLAKETA?

DISEINU  
TEKNO-  
PEDAGOKIKOA?

EBALUAZIOA?

IRAKASLEEN  
FORMAZIOA?

**ADIBIDEZ...**

# MILA ESKER!



**AURTEN BAI FUNDAZIOA**  
Teknologiaren aukerak hizkuntzen  
i(ra)kaskuntzarako

**Maite Goñi @euskaljakintza**  
Mondragon Unibertsitatea  
BILBON, 2019ko otsailaren 21ean