



ICT TOOLS AND STEM ACTIVITIES

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THE IMPORTANCE OF DIGITALIZATION AND STEM IN EDUCATION

In recent years, there has been a great tendency towards the use of technology and **its integration into the curriculum has gained a great importance.** Particularly, the use of audio-visual materials in foreign language teaching classrooms has grown rapidly because of the increasing emphasis on communicative techniques, and it is obvious that **the use technological devices is a great help for foreign language teachers in stimulating and facilitating the target language.**

THE IMPORTANCE OF DIGITALIZATION AND STEM IN EDUCATION

However, we should also bear in mind that **STEM education** is highly important today for our students to become the active citizens of tomorrow. STEM education is the integration of science (among others) to create a student-centered learning environment in which students investigate and construct evidence-based explanations of real-world phenomena. Given the fact, that our school is bilingual and both Natural Science and Social Studies are taught in the English language, a combination of digitalization and STEM activities are implemented in our school in order to foster inquiry-based and motivating learning experiences.

ICT TOOLS

ICT tools are fostered by all teachers in our school so that our students improve their digital competence, and what is most important: every student has different needs and interests and the use of ICT tools helps teachers to cater for diversity in many ways.

ICT TOOLS

COMPUTER ASSISTED LANGUAGE LEARNING (CALL)

Nowadays, teachers have different digital and technological resources to draw upon when planning their lessons, and this has been possible thanks to the **Computer Assisted Language Learning**. It is an interactive method of instruction that helps learners achieve their goals of learning at their own pace and ability. In this approach, computer technology is used in teaching/learning procedures at all stages such as presentation, practice and feedback.

ICT TOOLS

We could mention many different CALL tools and applications teachers benefit from and use in their classroom. However, we will focus on the most important ones:

- **The smart board in combination with the overhead projector:** it includes activities in which students can develop the four linguistic skills. It is an interactive form to do feedback with students. In fact, most textbooks nowadays have the digital app on the Internet and teachers can make their explanations, correct activities and enhance students' participation using the smart board. They can participate actively solving the activities. If the teacher does not have a smart board in his/her classroom, a white board can also fulfill some of the functions the smart board includes.

9 I love that film!

WHAT'S HAPPENING?

Your guide to the fresh stories to get in town.

Winning Viewer

Must film (19/20) play for last week's competition. Look a great prize a place in the national hall and the chance to make their own film.

Winner: **Stukas Galdin**
4 votes
15 votes (27/10 - 4/20)

Science Drama Clinic

Come witness the exciting '100' at the Atlas Centre. Seventy four (74) aged between 11 and 16 show off their skills for you.

Starting 7pm, Tickets £15.00

The Art of the Camera

Beautiful exhibition from one of the best young (20) working today.

Exhibition Hall, 10-11 August
FREE

Pop Club

Sam's a member of the Young People's Film Club. His choice: 'By Stars 4 stars (21)'. On the water tower of the night again.

Starts 8.30, Tickets £2

Thomas Storyline

The final performance of just you, me and baby's tonight. This is your last chance to watch the wonderful (20) Derivatives!

8pm, Tickets £5, £7 and £5.50

Starting off

- Work in pairs. Look at the guide.
- Which of the things would you like to go to?
- What kind of things can you do where you live?

Complete the guide with words from the box.

actor bands dancers photographers play

Reading Part 4

- What is your favourite film? How many times have you seen it?
- Work in pairs. Look at these famous bears.
 - Which do you know?
 - What do you know about them?
 - Do you know any of their stories?

Always read the whole text before you try to answer the questions.

Look carefully at the words around the space, and make sure that your answer goes with them.

Try to think of a word which fits in the gap before you look at the options.

For each question, choose the correct answer for each gap.

Paddington Bear

One day, over 60 years ago, an English writer called Michael Bond went into a London shop to buy a present for his wife. There he (1) _____ a small toy bear, sitting by himself, the last one (2) _____ on the shelf. He brought the bear home and, because they lived near Paddington train station, he (3) _____ to call him Paddington.

Later, Michael wrote a story about Paddington Bear, which became a book. That book (4) _____ Michael Bond and his funny little bear very famous all over the world. Now there are very popular new films about the adventures of Paddington – and a lot (5) _____ children who enjoy them. Paddington is one of people's (6) _____ bear, young and old.

1 A watched B saw C looked
 2 A were B stayed C left
 3 A decided B thought C took
 4 A did B made C pushed
 5 A only B almost C first
 6 A attractive B favourite C excellent

4 Do you like stories about animals? What are your favourite ones?

ICT TOOLS

- **Internet websites:** The world wide web offers infinite resources to work on the linguistic competence both in the classroom and outside the classroom. In that way, teachers will be able to use different websites in order to work on grammar, vocabulary, phonetics and syntax among others. Some examples of the pages we use are the following:
 1. **Grammar:** some websites are focused on different grammatical aspects such as verbs, determiners, prepositions, etc... The website <https://learnenglishkids.britishcouncil.org/grammar-practice> allows you to work on for instance on frequency adverbs, comparatives and superlatives, possessives, have got, modal verbs, etc..
 2. **Vocabulary:** some websites are focused on vocabulary. For instance, the website <https://www.gamestolearnenglish.com/> allows you to practise vocabulary items related to the weather, food, animals, etc... You can also play the Spin the Wheel game in the website <http://www.eslgamesworld.com/members/games/vocabulary/spinwheel/> and practise vocabulary about home, jobs , food, etc..

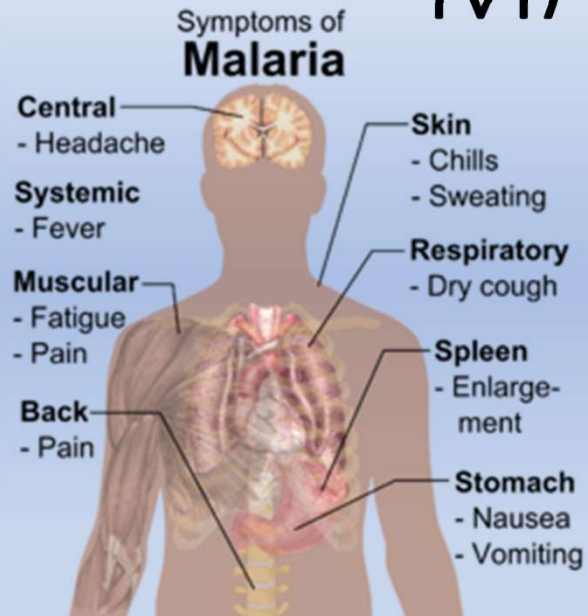
ICT TOOLS

1. **Phonetics:** some phonics websites can help the student to improve their pronunciation and sound recognition. For instance, in the webpage <https://www.education.com/game/blending-sounds-spelling/> , students can practice all the sound including blending sounds.
2. **Syntax:** there are also sentence builder websites in which the students have to construct complete sentences by dragging words to an open space. <https://www.education.com/game/adjective-adverb-sentence-builder/>
 - **All these websites are based on gamification, motivating our students in order to obtain rewards.**

ICT TOOLS

- **E-creation tools:** teachers who are interested in using technology as a means of promoting English language learning have a wide variety of technological e-creation tools at their disposal to choose from. E-creation tools are software or applications of software that provide a free forum for teachers or students to publish their original work. There are different kinds of e-creation tools available nowadays:
 - **Presentation software:** it refers to software designed for creating presentations such as PowerPoint or FreeOffice. Teachers can create **content-rich presentations** to explain or review concepts with the aid of visuals. Teachers use presentation software for all the core subjects, especially English, Natural Science and Social Studies.

MALARIA



Where is Europe?

- Europe is located in the Northern Hemisphere and is the 2nd smallest continent in the world.
- Europe borders the Atlantic Ocean to the west and the Arctic Ocean to the north.
- Europe also borders the Ural Mountains and the Caspian Sea to the east.



ICT TOOLS

Gamification tools: gamification in education refers to the introduction of game design elements and gameful experiences in the design of learning processes. Nowadays, we can count on many different gamification apps in order to improve different language skills and foster different key competences such as learning to learn, or sense of initiative and entrepreneurship. Some example of gamification apps are Quizlet, ClassDojo, Classcraft or Minecraft Education Edition.

Irregular verbs

4.7 ★★★★★ 19 reseñas Dejar una valoración

48 usuarios estudiaron esta unidad en los últimos 3 días

JUEGO DE CLASE

Live

ESTUDIAR

Fichas

Aprender

Escribir

Ortografía

Probar

Combinar



To beat,
beat,
beaten.



2/82



Añadir nombre +

laulopezmartin

Plan: Actualizar

Mis intereses(2) Mostrar

Perfil verificado

¡Solicita tu perfil verificado hoy mismo!

[Ir a la app](#)

Kahoot! EDU Summit! 2022

Join us on June 14 and 15 for our FREE virtual PD event to map out your next school year!

[Register now!](#)

Cursos

Crea tu primer curso y asígnalo a los estudiantes. Haz un seguimiento del progreso con informes detallados, envía recordatorios y edita el contenido para adaptarlo a las necesidades de los estudiantes.

[Crear curso](#)

Novedades



Nuevo Join the Kahoot! EDU Summit to map out your next school year!

On June 14 and 15 at 9:00am PDT we'll be hosting our free virtual PD event to help you pack your teaching toolkit with all the digital essentials.

Mis kaho...

Espacio de equi...

23 Preguntas

ILLNESSES

laulopezma 4 jugadas

19 Preguntas

TOPIC 6

laulopezma 1 jugadas

22 Preguntas

Natural Science Unit 1

laulopezma 2 jugadas

[Ver todos \(9\)](#)

Kahoots asignados

Los estudiantes juegan de forma independiente durante un tiempo determinado con preguntas y respuestas que

¡La app de Kahoot! ya está en español!

[Más información](#)



Últimos informes



ILLNESSES

4 jugadas · 32 jugadores



Empezar Asignar Practicar

ILLNESSES

Un kahoot público

laulopezmartin Actualizado 3 months ago

Preguntas (23)

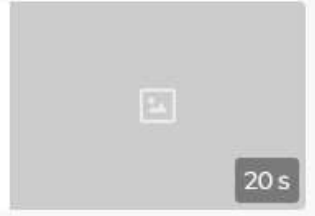
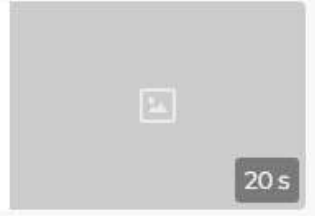
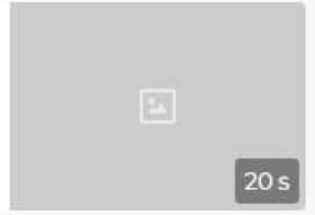
1 - Quiz
INFECTIOUS ILLNESSES

2 - Quiz
ACUTE ILLNESSES

3 - Quiz
CHRONIC ILLNESSES

4 - Quiz
NON-INFECTIOUS ILLNESS

Mostrar respuestas



ICT TOOLS

- **Podcasts:** they are a great resource for listening comprehension material. Most of them are relatively short, and teachers come up with a few comprehension questions or cloze exercises for specific words and fill in the blank. For instance, a good webpage to keep in mind would be

<https://www.bbc.co.uk/podcasts>

ICT TOOLS

- **Blogs:** They are web logs or journals, posted to a website where they can be seen by anyone. Some teachers have use blogs to publish resources, or class events. They can use blogs to help students' master content and improve their skills. There are free different websites teachers can use such as <http://blogger.com>

Here we are again;

- Página principal
- ENGLISH
- NATURAL SCIENCE
- SOCIAL STUDIES
- DICCIONARIO INGLÉS/ESPAÑOL OXFORD
- READINGS
- TRINITY EXAM
- RESUMEN CONTENIDOS INGLÉS

sábado, 12 de septiembre de 2015

ESTIMADOS INTERNAUTAS.

Buenos días a todos,

¡Ya volvemos de vacaciones y estamos en el tercer trimestre!

Un saludo,

Laura.

He añadido una página más denominada "readings" (también con una pestaña en la parte superior de la página) en la que cuelgo libros en inglés de lectura fácil que los niños puedan leer online mejorando la pronunciación así como la lectura. Os invito a que la utilicéis.

Así mismo, en la pestaña "Trinity" he introducido juegos de vocabulario básico que es susceptible de ser preguntado en el examen del Trinity.

Nuestro colegio



ASIGNATURAS Y CONTENIDOS

- ENGLISH
- NATURAL SCIENCE
- SOCIAL STUDIES
- CONTENIDOS TERCER TRIMESTRE

ICT TOOLS

- **Reading apps:** there are different apps teachers can use in order to foster reading promotion and digital competence. The Autonomous Community of Madrid offers teachers the app “Smile and Learn”, which is a learning platform specialized in videos, games, and stories. It reinforces cross-curricular learning and cognitive skills development. Teachers can assign different tasks to students and keep track of their performance.

Likewise, we also have a digital app to assign readings to our students on a weekly basis: Milton Travelers.



- Tools
- Resources
- Content
- Assignments
- Analytics
- Gradebooks
- Settings
- Students
- Help

6°A primar: [User Profile]

STUDENT MODE

CLASS GAMES NEW

CLASS COINS

STUDENT REWARDS

MANAGE GROUPS

TIMER

PICK A STUDENT

TODAY



Every year, I go to the beach with my family for summer vacation. I usually swim in the ocean, build sandcastles and look for seashells. That was fun for a few years, but this past summer, I was a little bit bored. I wanted to try something new.

One morning, I saw some surfers in the water. They were riding some big waves. I asked my parents if I could learn to surf. They found a surf school at the beach and signed me up for a lesson.

ICT TOOLS

- **Virtual classrooms: Aula Virtual Educamadrid and Google Classroom.**

The Autonomous Community of Madrid encourages public schools to make use of virtual classrooms for several reasons, being the most important ones:

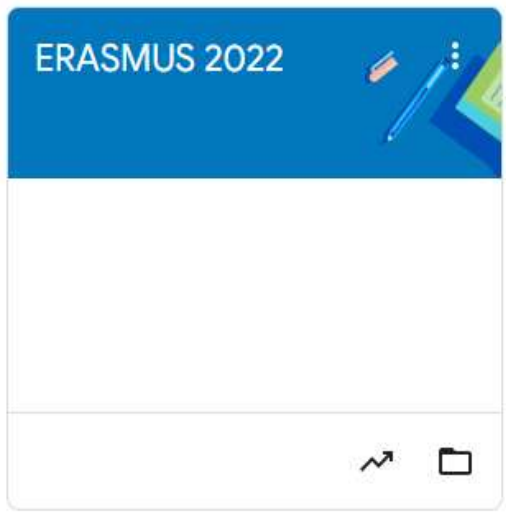
- Both students and parents have information about the contents, activities, announcements, assignments, etc, of what it is going on during the school year. Therefore, they have a clear understanding of the teacher's expectations and how the learning process is organized.

ICT TOOLS

- If a student has been absent, he/she can check the assignments and the contents covered during his/her absence and keep track.
- The COVID-19 pandemic situation has changed education for ever, with the distinctive rise of e-learning. It has forced schools and education to engage in a digital transformation, and a virtual classroom is the best asset. We do not know if another pandemic or if another snowstorm such as Filomena will happen again.

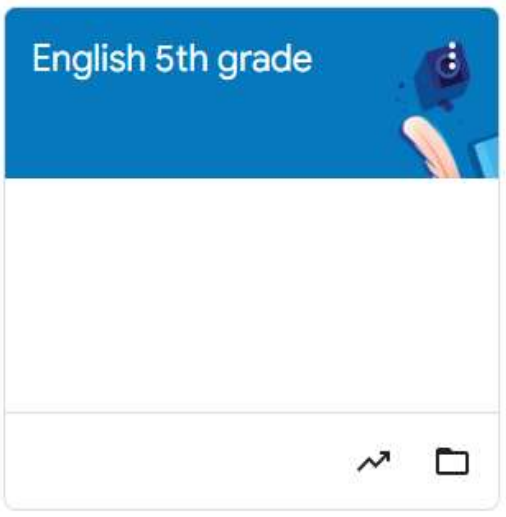
Para revisar | Calendario

ERASMUS 2022



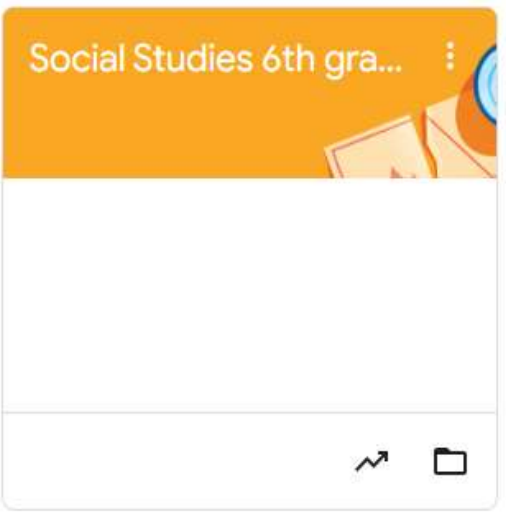
↑ 📁

English 5th grade



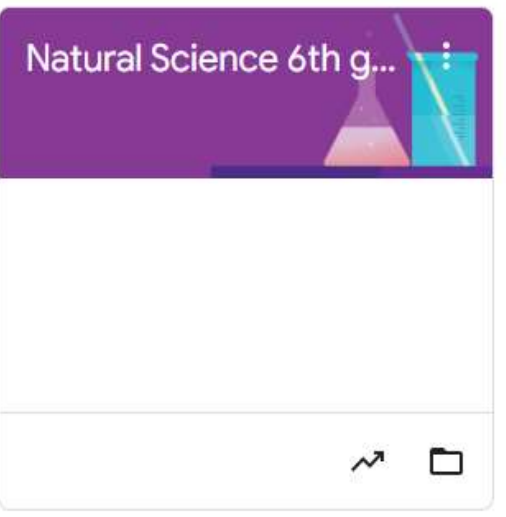
↑ 📁

Social Studies 6th gra...



↑ 📁

Natural Science 6th g...



↑ 📁

English 6A, 6B and 6C



?

SOCIAL SCIENCE 6TH GRADE

Tablón

Trabajo de clase

Personas

Calificaciones



Meet

[Generar enlace](#)

Código de clase



75jzefk

Próximas entregas

No tienes ninguna tarea
para esta semana[Ver todo](#)

Anuncia algo a tu clase



Laura López Martin

29 abr



Estimadas familias:

Tal como informamos ayer a los alumnos, el control de CCSS de la unidad 5 será el próximo martes 10 de mayo. Les hemos entregado en el día de hoy el activity book de la unidad 5 para que puedan trabajarlo este fin de semana. Lo comenzaremos a corregir el próximo martes 3 de mayo.

Os remitimos en adjunto el archivo en color porque lo necesitarán para hacer el ejercicio 10.

Así mismo, os recordamos que dentro de los contenidos de la unidad 5 entrarán también la localización de comunidades autónomas/ciudades autónomas y provincias. Realizaremos en clase dos mapas (uno de comunidades autónomas/ciudades autónomas, y otro de provincias) previamente al día del examen.

Buen fin de semana.

Profes CCSS.



Activity book Unit 5 Social...

PDF



Añade un comentario de clase



ICT TOOLS

- **Web 2.0 tools for hosting videos, audios and activities:** The Autonomous Community of Madrid also offers teachers the so called “Mediateca”, which is a Web 2.0 tool. It allows teachers to upload different digital materials that can be shared with other users and students. It is also a good option to share the graduation ceremony and other school celebrations with parents.

- Inicio
- Últimos contenidos
- Centros
- Contenidos...

Inicia sesión para aportar contenidos, crear listas de reproducción...

Iniciar sesión



The Friday radio show 22
 subido por Cp machado colladovillalba
 hace 16 horas - España - Escuchado 6 veces



Sociales tema 6. La Edad Co...
 subido por Cp machado colladovillalba
 hace 16 horas - España - Escuchado 5 veces



PODCAST EL BERCIAL
 subido por Cp elbercial getafe
 hace 2 días - Escuchado 5 veces



LAS SONRISAS DE RASCAF...
 subido por Irene G.
 hace 7 días - España - Escuchado 4 veces

Lista

ver más



XVII Foro por la Convivencia
 subido por Educamadrid
 hace 3 meses - 332 visualizaciones



CARNAVAL CIRCO 16
 subido por Tic cp juandeaustria leganes
 hace 2 años - 498 visualizaciones



Valores 3º EP
 subido por Gerardo C.
 hace 3 años - 7 visualizaciones



NAVIDAD
 subido por Cp claudiovazquez morata
 hace 7 años - 10 visualizaciones

Usa el buscador para encontrar más contenidos:

Microsoft Store

STEM ACTIVITIES

We will also give some examples of the STEM activities we have carried out in this school year:

- To foster entrepreneurship, students had to create an invention, explain its purpose, give it a price and explain how it was going to be advertised.

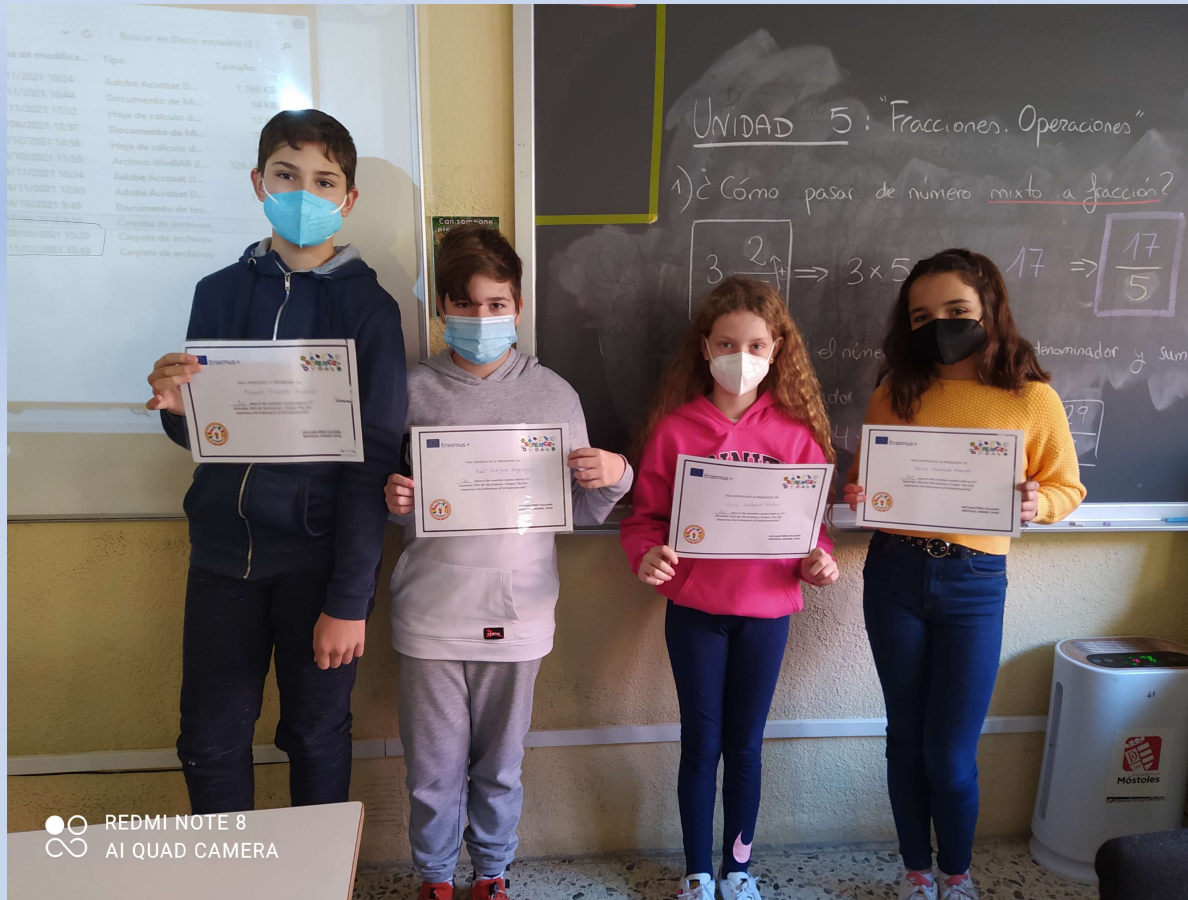
STEM ACTIVITIES: INVENTIONS



STEM ACTIVITIES: INVENTIONS



STEM ACTIVITIES: INVENTIONS

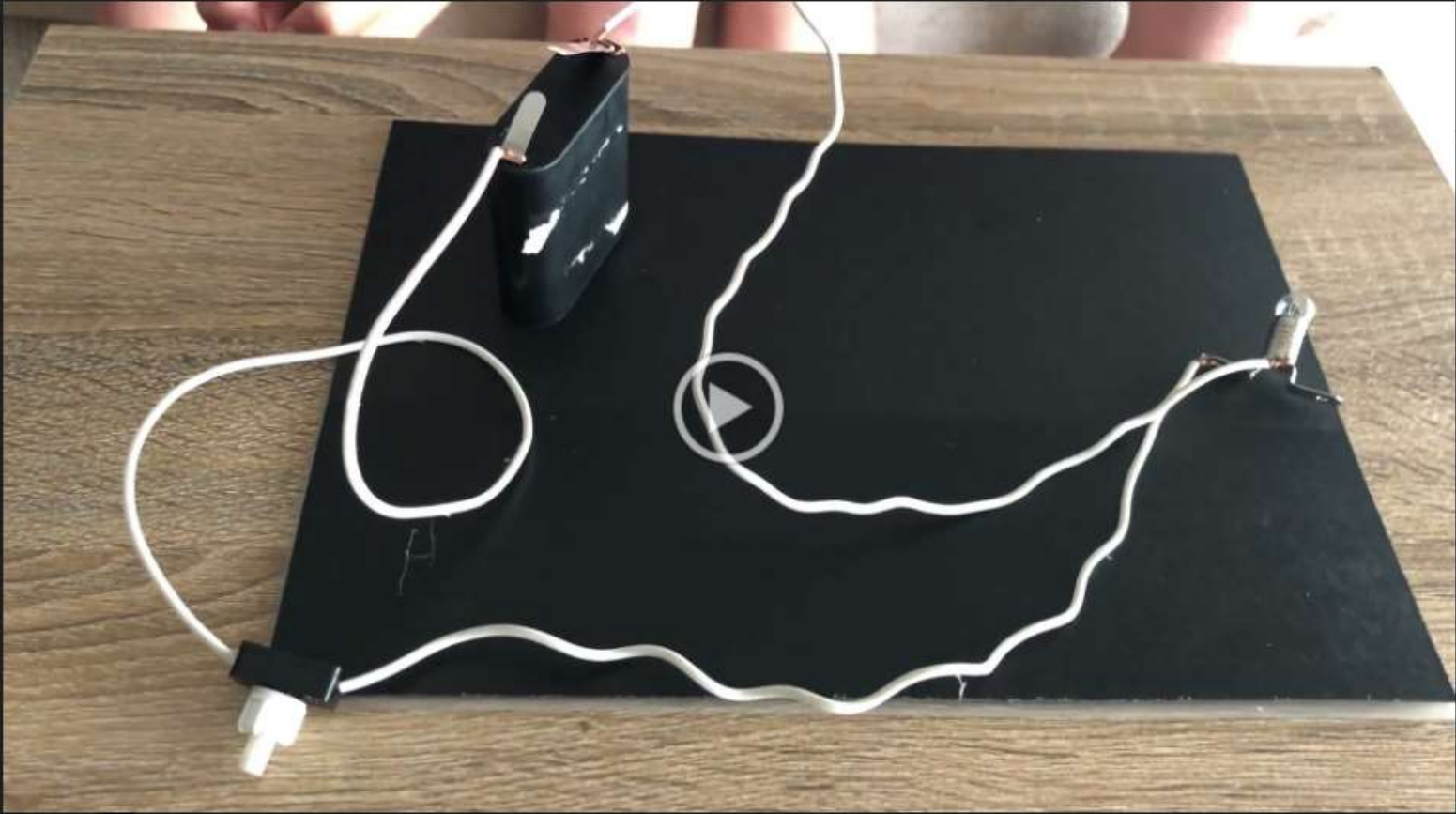


STEM ACTIVITIES

We will also give some examples of the STEM activities we have carried out in this school year:

- To Foster initiative in the scientific field, our students proposed experiments involving change of the state of matter, chemical changes or ways to create energy. They shot them at home and then we all saw them and drew conclusions.

- Nuevo
- Mi unidad
- Ordenadores
- Compartido conmigo
- Reciente
- Destacados
- Papelera
- Almacenamiento
- 10,47 GB de 15 GB usado
- Comprar espacio



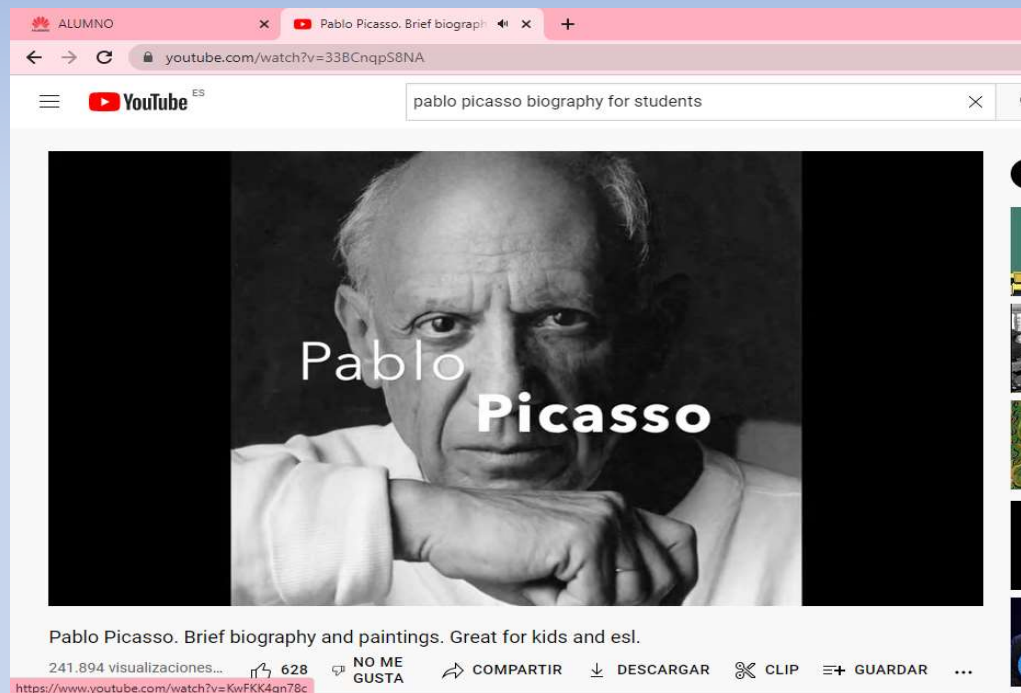
STEM ACTIVITIES

We will also give some examples of the STEM activities we have carried out in this school year:

- To Foster the key competence learning to learning, we currently do activities involving **the flipped classroom approach in combination with a cooperative approach**, reversing traditional roles of *learn at school and practice at home* to **learn at home and practice at school**.

One example of a flipped-classroom activity carried out in Social Studies for 6th graders

- Students watch different videos at home about Pablo Picasso and the Guernica, taking notes of the most important aspects explained:



The following day the teacher starts the session using a KWL chart to know what they have learned at home after watching the video links.

The image shows a vertical KWL chart template. At the top, there is a header section with a large, bold letter 'L' on the left and the text 'What I Learned' to its right. Below this header is a large, empty rectangular box for writing. To the right of the entire chart is a vertical line of small circles, resembling a spiral binding.

In this way, the teacher knows what students have understood and the doubts they have about the topic itself.

Using 8-minute stations and based on task-based learning, students have to carry out different activities related to Picasso and The Guernica:

Station 1: watch a video.

Station 2: read a short text.

Station 3: write a short text about their findings

Finally, the students explain their findings and the teacher will fulfil a debriefing about the contents treated.



CONCLUSION

In short, Information Communication Technology tools contribute to high quality lessons since they have the potential to increase students' motivation, connect students to many information sources, support active in-class and out-class learning environments and fosters digital competence.

Finally, STEM learning brings an element of creativity to the classroom and encourages students to explore new ways of learning. Therefore, the combination of ICT tools with STEM activities are a great asset in education every school should implement.