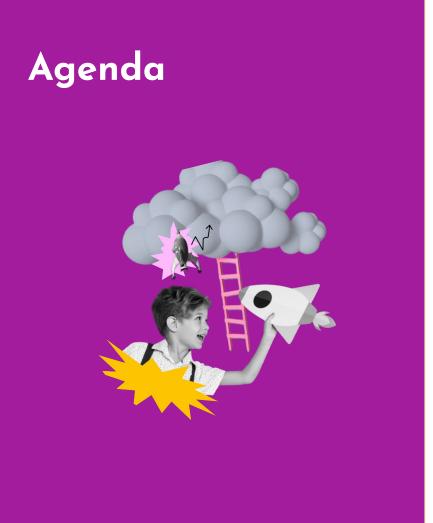
ESCUELA21

Digital Transformation Erasmus meeting - 25.11.22





10' Welcome!

10' Digital transformation. Concept and frameworks

30' Important challenges about digital transformation

30' Actives methodologies and digital technologies

10' Metacognition

ESCUELA21 Why don't we know each other better?

- Our name
- Where do we work and what do we do there?









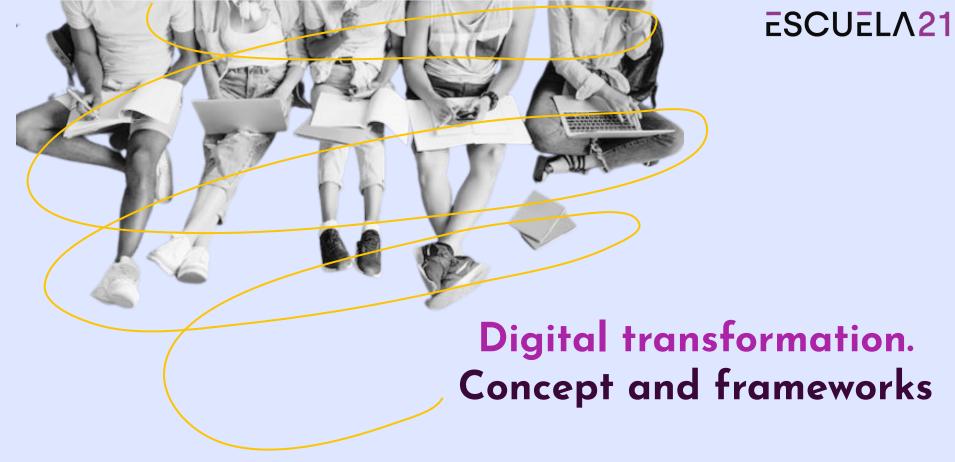


Foundations and companies

Governments and administrations

Schools and networks of education centres

Erasmus in Wien



Digital transformation

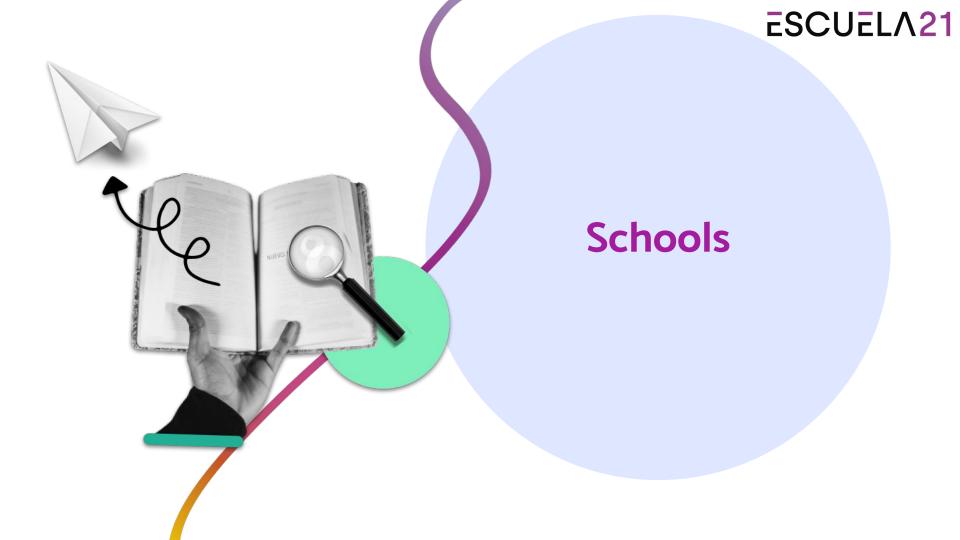


The continuous process by which the integration of digital technologies in learning processes creates opportunities for students to learn more and better, contemplating inclusion, equity and personalization.

Digital competence

- Digital competence is both an obligation and a right
- There are three frameworks that guide us for its development:
 - \circ Schools
 - Citizens
 - Teachers

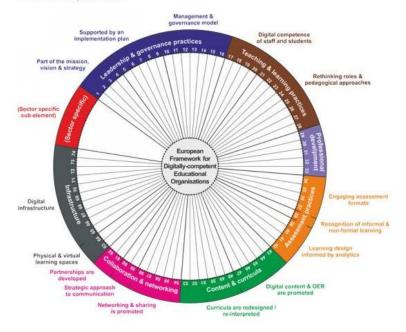




DigCompOrg Framework

The DigCompOrg framework has **seven key elements** and **15 sub-elements** that are common to all education sectors. There is also scope for the addition of sector-specific elements and sub-elements.

For each of the elements and sub-elements of DigCompOrg, **a number of descriptors** were developed (74 in total). Diagrammatically, the elements, sub-elements and descriptors of DigCompOrg are presented as the segments of a circle, with an emphasis on their inter-relatedness and inter-dependence.











DigComp 2.2

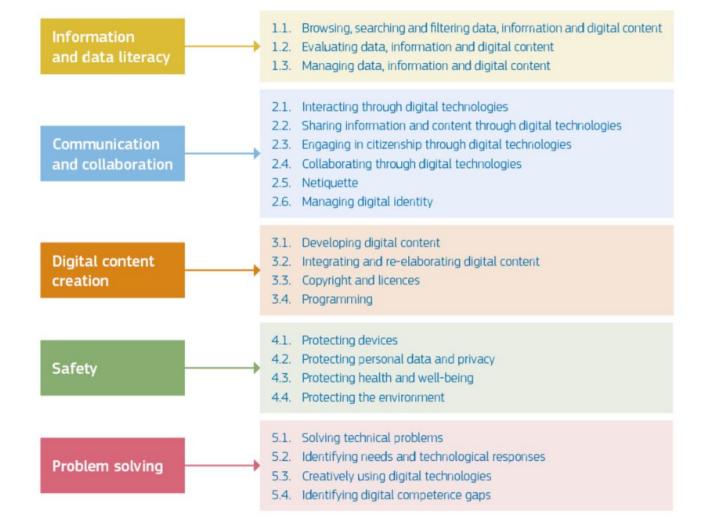
The Digital Competence Framework for Citizens

With new examples of knowledge, skills and attitudes

Riina Vuorikari Stefano Kluzer Yves Punie

EUR 31006 EN







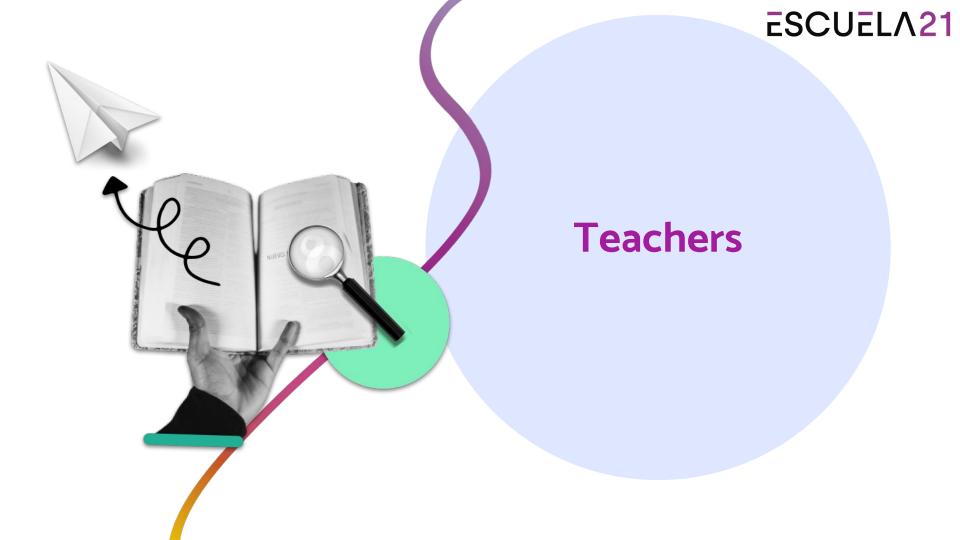
DIMENSION 1 • COMPETENCE AREA 1. INFORMATION AND DATA LITERACY

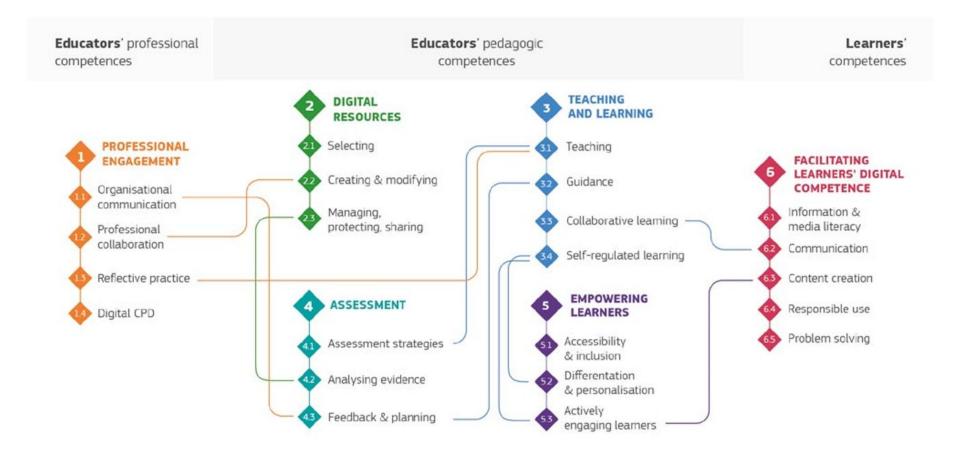
DIMENSION 2 • COMPETENCE 1.1 BROWSING, SEARCHING AND FILTERING DATA, INFORMATION AND DIGITAL CONTENT

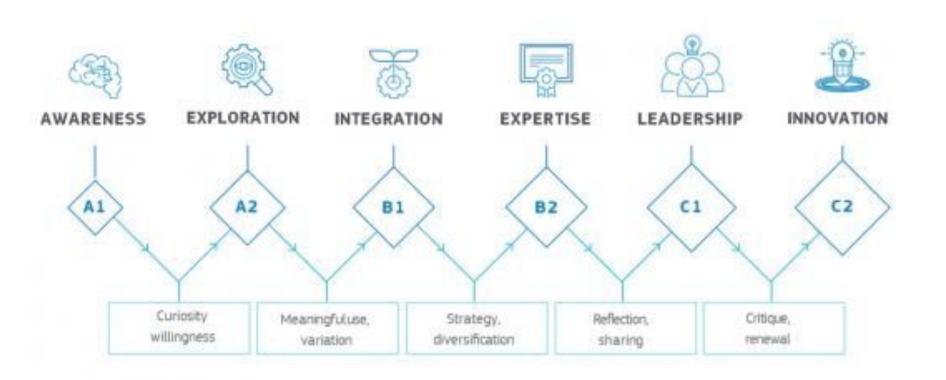
To articulate information needs , to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.

DIMENSION 3 · PROFICIENCY LEVEL

| NOTIFICIAL | ٠ | At basic level and with guidance, I can: | identify my information needs, find data, information and content through a simple search in digital environments, find how to access these data, information and content and navigate between them, identify simple personal search strategies. |
|------------|---|---|---|
| | 2 | At basic level and with autonomy and appropriate guidance where needed, I can: | identify my information needs, find data, information and content through a simple search in digital environments, find how to access these data, information and content and navigate between them. identify simple personal search strategies. |
| | 3 | On my own and solving straightforward problems, I can: | explain my information needs, perform well-defined and routine searches to find data, information and content in digital environments, explain how to access them and navigate between them, explain well-defined and routine personal search strategies. |
| | ٩ | Independently, according to my own needs, and solving well-defined and non-routine problems, I can: | illustrate information needs, organise the searches of data, information and content in digital environments, describe how to access these data, information and content, and navigate between them, organise personal search strategies. |
| | 5 | As well as guiding others, I can: | respond to information needs, apply searches to obtain data, information and content in digital environments, show how to access these data, information and content and navigate between them. propose personal search strategies. |
| | 6 | At advanced level, according to my own needs and those of others, and in complex contexts, I can: | assess information needs, adapt my searching strategy to find the most appropriate data, information and content in digital environments, explain how to access these most appropriate data, information and content and navigate among them, vary personal search strategies. |
| | 7 | At highly specialised level, I can: | create solutions to complex problems with limited definition that are related to browsing, searching and filtering of data, information and digital content, integrate my knowledge to contribute to professional practice and knowledge and guide others in browsing, searching and filtering data, information and digital content |
| | 8 | At the most advanced and specialised level, I can: | create solutions to solve complex problems with many interacting factors that are related to browsing, searching and filtering data, information and digital content. propose new ideas and processes to the field. |

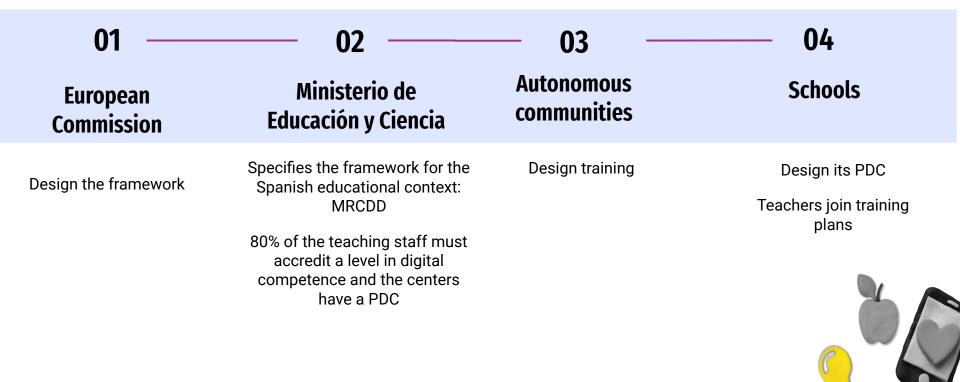








Spain proposal (2021/2024)



GOBIERNO DE ARAGON





MARCO DE REFERENCIA DE LA COMPETENCIA DIGITAL DOCENTE (MRCDD)

COMPROMISO PROFESIONAL

- 1.1. Comunicación organizativa
- 1.2. Participación, colaboración y coordinación profesional
- 1.3. Práctica reflexiva
- 1.4. Desarrollo profesional digital continuo (DPC)
- 1.5. Protección de datos personales, privacidad, seguridad y bienestar digital

CONTENIDOS DIGITALES

- 2.1. Búsqueda y selección de contenidos digitales
- 2.2. Creación y modificación de contenidos digitales
 - 2.3. Protección, gestión y compartición de contenidos digitales

ENSEÑANZA Y

APRENDIZAJE

COMPETENCIA

COMPETENCIA

COMPETENCIA PEDAGOGICA

- 3.1. Enseñanza
- 3.2. Orientación y apoyo en el aprendizaje
- 3.3. Aprendizaje entre iguales
- 3.4. Aprendizaie autorregulado

EVALUACIÓN Y RETROALIMENTACIÓN

- 4.1. Estrategias de evaluación
- 4.2. Analíticas y evidencias de aprendizaje
- 4.3. Retroalimentación y toma de decisiones

EMPODERAMIENTO DEL ALUMNADO

- 5.1. Accesibilidad e inclusión
- 5.2. Atención a las diferencias personales en el aprendizaje
- 5.3. Compromiso activo del alumnado con su propio aprendizaje



DESARROLLO DE LA COMPETENCIA DIGITAL DEL ALUMNADO

- 6.1. Alfabetización mediática y en tratamiento de la información y de los datos
- 6.2. Comunicación y colaboración digital
- 6.3. Creación de contenidos
- 6.4. Uso responsable y bienestar digital
- 6.5. Resolución de problemas

ACCESO ETAPAS Y NIVELES A1-CONOCIMIENTO A2-INICIACIÓN

INNOVACIÓN EXPERIENCIA **B1-ADOPCIÓN** C1-LIDERAZGO B2-ADAPTACIÓN C2-TRANSFORMACIÓN

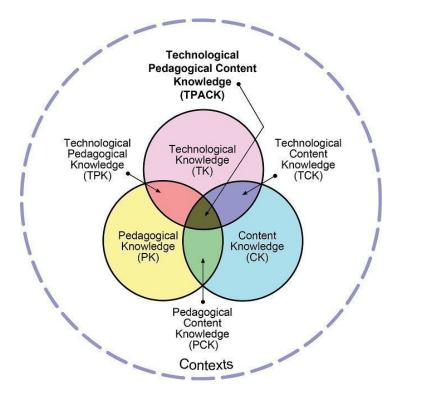


COMPETENCIA

COMPETENCIA

COMPETENCIA PARA EL DESARROLLO DE LAS COMPETENCIAS DEL ALUMNADO

A 21st century teacher must have...



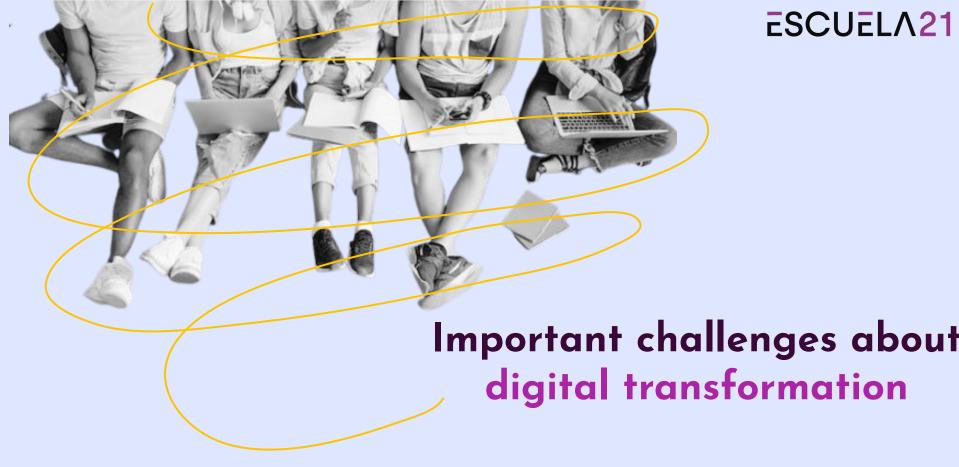
ΞSCUELΛ21

Content Knowledge

Pedagogical Knowledge

Technological Knowledge

Mishra & Koehler, 2006



FOAR Analysis... about the digital transformation in your country



Fortalezas/Strengths

in which aspects we excel?

Oportunidades/Opportunities

What are our possibilities in the short and medium term?

Aspiraciones/Aspirations

What do we want to do in the long term?

Resultados/Results

How can we measure our progress?

ESCUEL∧21

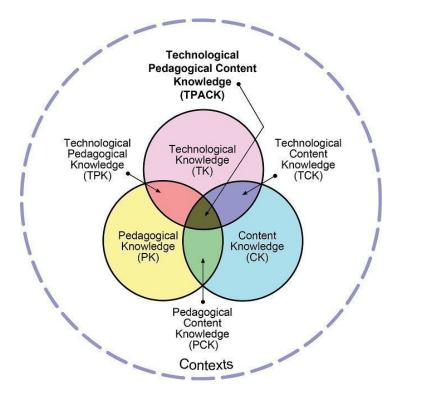
What is the biggest challenge in your country regarding the digital transformation of education?

Name of the group here (country)

Your answer here...



A 21st century teacher must have...



ΞSCUELΛ21

Content Knowledge

Pedagogical Knowledge

Technological Knowledge

Mishra & Koehler, 2006



Active methodologies

Active methodologies: key aspects



- Start from real challenges and powerful questions (promoting student motivation).
- 2. Promote personalized learning (giving the learner a choice about what to learn, how to learn and when to learn).
- 3. Encourage change in traditional roles (teacher as a guide or facilitator. Students active in the search for solutions).

Change of perspective: from transmitter to facilitator

- Design and accompany learning processes that encourage everyone's participation.
- Helping students learn from each other.



Active methodologies: key aspects



4. Integrating evaluation as a learning tool along the process.

5. Promoting the culture of thinking.

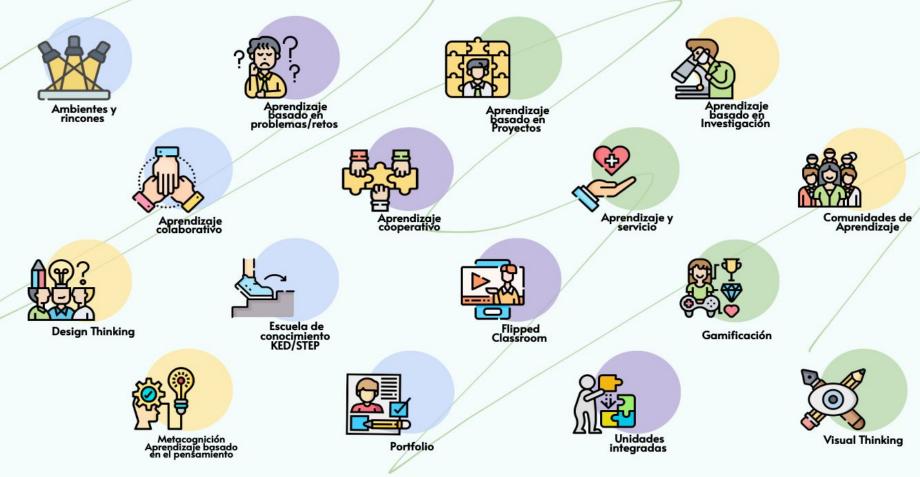
6. Based on teamwork.

Active methodologies: examples

- Flipped Classroom
- Project-based Learning
- Service-Learning
- Gamification



METODOLOGÍAS ACTIVAS





Flipped classroom

"Pedagogical model that transfers some learning processes outside the classroom and uses class time to enhance and facilitate other processes of acquisition and practice in the classroom".

theflippedclassroom.es

The Flipped Classroom



Students practice applying key concepts with feedback

GOAL

IN CLASS

Students check their

GOAL

Students prepare to

GOAL

participate in class activities

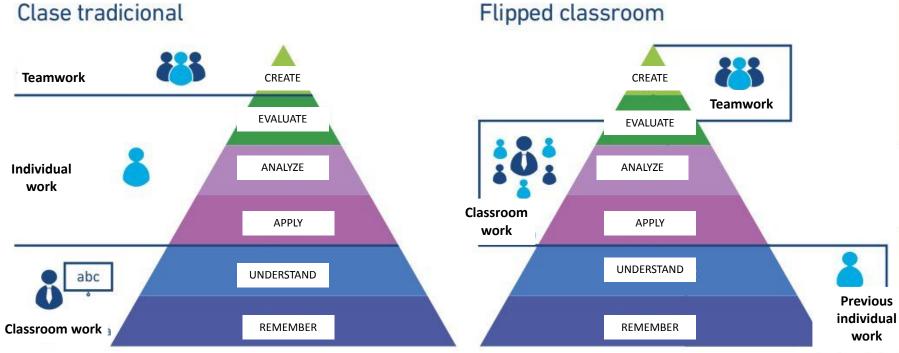
BEFORE

understanding and extend their learning

OUT OF CLASS

Fuente de la imagen: https://facultyinnovate.utexas.edu/flipped-classroom

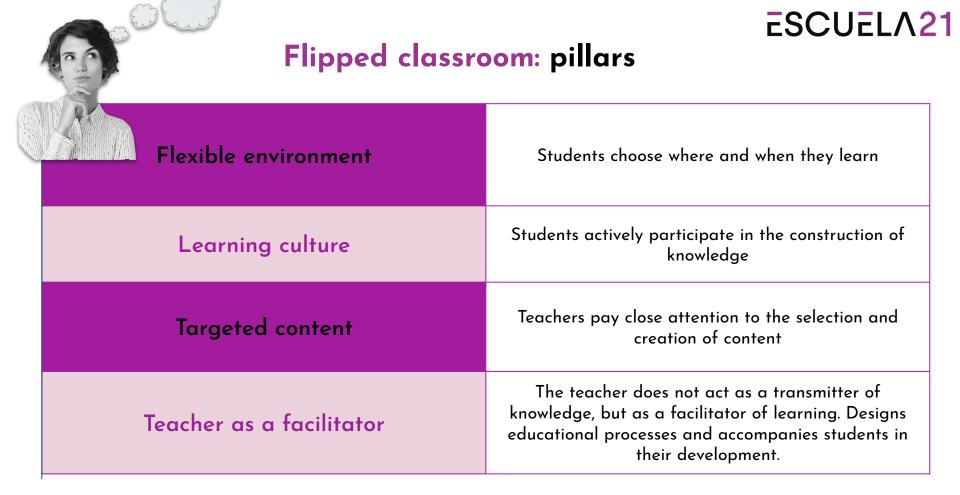
Flipped classroom



aulaplaneta*

Previous

work



Flipped classroom: benefits











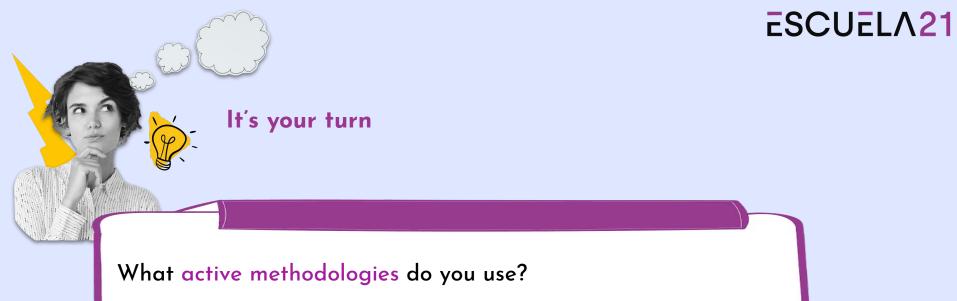
More time for diversity

It's an opportunity to share knowledge

Content always available There is collaborative learning in the classroom

Engages family from the start





ESCUELA21

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