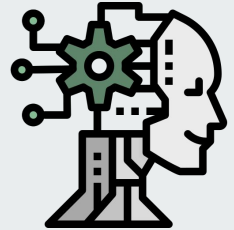

Designing Lectures Using AI, Integrating AI into Digital Tools That Motivate Students to Learn

Jorge García Rodríguez, ELA Trainer

AI-powered tools for teachers



AI-powered teaching tools

Devices: Any device (tablets, smartphone, browser)

Main usage: Lesson planning, assessment and test planning,
communication

Pros: User-friendly, variety of tools, teacher and student tools, no sign up required to launch room, custom chatbots, possibility to monitor students

Cons: Export is a pro feature





Welcome to MagicSchool ✨🤖

MagicSchool is your AI assistant for all things teaching. We think #TeachersAreMagic - and we are on a mission to fight teacher burnout with Artificial Intelligence.

Let's take a look at how MagicSchool can assist you!

Magic Tools ✨🤖

MagicSchool has over 50 tools that can help you do different tasks that can help you lesson plan, differentiate, communicate with families, write a teacher joke, an IEP, personalize learning, and more!

Let's try a few tools.

Best practices for using Magic School (teachers)

- **Check for Bias and Accuracy:** AI might occasionally produce biased or incorrect content. Always double-check before sharing with students.
- **The 80-20 Approach:** Use AI for initial work, but make sure to add your final touch, review for bias and accuracy, and contextualize appropriately for the last 20%.
- **Your Judgement Matters:** See AI-generated content as a starting point, not a final solution. Always adhere to your school's guidelines.
- **Know the Limits:** Our AI's knowledge stops at 2021, so be aware when dealing with recent topics.
- **Protect Privacy:** Don't include personal student details like names or addresses. We strive to promptly remove any accidentally submitted information.

Best practices for using Magic School (students)

- **Your Teacher Can See Your Activity in MagicSchool:** Please make sure to follow your school and classroom guidelines when interacting with the AI.
- **Math Answers are Not Reliable:** Large Language Models can help you with step by step processes, but can not calculate math solutions accurately. Do not rely on AI for math solutions.
- **Interacting With An AI Takes Practice:** Be clear and specific about what you need so the AI can give you a better answer. Try again if the first try isn't what you hoped for!
- **AI is a Tool - Not a Replacement for Your Thinking:** See AI-generated content as something that can help assist you, but not the final solution.
- **Monitor for Bias and Accuracy:** AI might occasionally produce biased or incorrect content. Always double-check important information.
- **Protect Privacy:** Don't include personal details like names or addresses. We strive to promptly remove any accidentally submitted information.

Gamma



AI-powered presentations



Devices: Any device (tablets, smartphone, browser)

Main usage: Presentation and website builder

Pros: Integration with PPT (both import and export), powerful editing possibilities (both text with AI and layouts), integration with basic AI image models, possibility to present with spotlight mode

Cons: Access to AI based on credits

NotebookLM

The logo for NotebookLM is a white square with the text "NotebookLM" centered in a black rectangular box.

NotebookLM

NotebookLM

NotebookLM

Notebook LM uses AI to analyze and summarize documents, extracting key insights and connections.

- **Contextual understanding:** It understands the context of your notes, allowing it to provide relevant suggestions and answers.
- **Interactive Q&A:** Users can ask questions about their documents, and Notebook LM generates answers based on the content.
- **Source-grounded responses:** It cites specific sources from your documents, ensuring accuracy and transparency.

NotebookLM in education

NotebookLM

- **Study aid:** Students can upload lecture notes or textbooks and ask questions to clarify concepts or get summaries.
- **Research assistance:** It helps organize and analyze research materials, making it easier to find relevant information.
- **Collaborative learning:** Teachers and students can use it to create interactive, AI-enhanced study guides or lesson plans.
- **Writing support:** It assists in drafting essays or reports by providing insights and references from uploaded materials.

NotebookLM: free account limits

NotebookLM

- Mostly for use in English
- 100 notebooks (up to 50 sources per notebook)
- Up to 500.000 words per source
- 50 chat inputs and 3 audio generations per day

Meeting minutes

Otter.ai

- OtterPilot auto-joins Zoom, Google Meet, and Microsoft Teams meetings to automatically take notes, allowing everyone to participate freely.
- 300 monthly transcription minutes



Padlet

Padlet

Devices: Pc, tablet, smartphone

Main usage: Collaborative space to allow anyone to publish content, individually or collaboratively.

AI Integration: YES

Pros: Extremely **simple** and versatile; easy to learn and to use for beginners

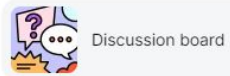
Doesn't require much time/efforts; different types of media to put in each post; you can save your padlet as .PDF

Cons: Create max 3 walls/padlets with the free version: each post only 1 media (photo, video, audio etc...)

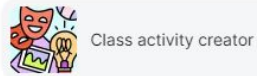


Generate with AI and access templates

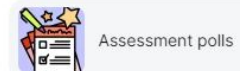
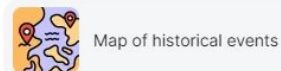
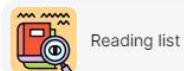
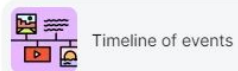
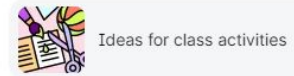
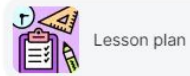
AI recipes BETA



New



New



3-2-1 summary



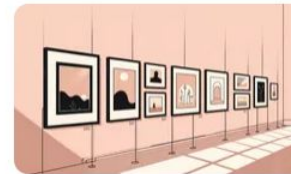
AI art studio



About us



Announcements



Art showcase



Before and after



Biography



Birthday wall



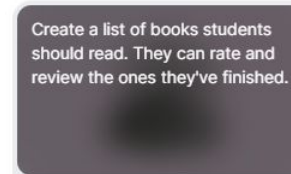
Blog



Book club



Book report



Book reviews

Twee: creating/browsing projects



Creating/ browsing projects with Twee



Watch and Listen

Develop your students' listening skills while exploring the world of video and audio content



Learn and practice new words

Work on your students' vocabulary range and control



Ideas for homework

Some independent practice to let it all sink in



Drill some grammar

Dreary but useful: make your students practise grammar structures



Read and understand a text

Create, analyse and discuss an unlimited range of unique reading materials



Make your students speak

Break all language barriers with awesome speaking prompts

All 33

Favorites 0

Reading 7

Vocabulary 9

Writing 5

Speaking 9


Grammar 4

Listening 3



Learn and practice new words

Work on your students' vocabulary range and control



I'm really upset about what happened.

Just let it be!

What's the most important thing in life?

All you need is love.

Vocabulary

Create communicative situations with your vocabulary

Creates short two-line dialogues with the target vocabulary. You can give them to your students to show how to use new words and phrases in everyday speech.

Language:

English (American) ▾



Create communicative situations with your vocabulary

Creates short two-line dialogues with the target vocabulary. You can give them to your students to show how to use new words and phrases in everyday speech.

Target Vocabulary

Type the words you want to use separated by a comma...

0 / 20

Level

Simple A1-A2 ▾

Do the magic!



Learn and practice new words

Work on your students' vocabulary range and control



Create communicative situations with your vocabulary

Creates short two-line dialogues with the target vocabulary. You can give them to your students to show how to use new words and phrases in everyday speech.

Target Vocabulary

Copy

antibiotic x

cure.drug.medication x

pharmaceutical x

pill x

prescription x

remedy x

x

6 / 20

Level

Advanced C1-C2



Do the magic!

1

Let's Tackle These Conversations!

[+ Add short description](#)

View options

A

I think I need an antibiotic for this infection.

B

You should see a doctor and get a prescription for it.

A

I heard they found a cure for cancer.

B

That would be amazing! I hope it's a safe and effective drug.

A

The pharmaceutical company is developing a new medication for diabetes.

B

That's great news for those who struggle with the disease.

A

I hate taking pills. They always make me nauseous.

B

Have you talked to your doctor about alternative remedies?

A

I forgot to pick up my prescription at the pharmacy.



Learn and practice new words

Work on your students' vocabulary range and control



Copy



Edit



Don't stop!

Create using the words:



Word-definition matching



Sentences with target vocabulary



Reading bits and pieces



A text with target vocabulary



A dialogue with target vocabulary



Discussion questions



Creative writing



Word-translation matching



Rephrase With Word Given

Create using the result:



Fill in the gap



Extract collocations

Project:

Medical Treatme... ⋮



Save as PDF



Include answers



Share

Innovation in education

Innovation is defined as *“the process of making changes to something established by introducing something new.”*

- Education is sometimes perceived as a sector which is **resistant to change**, while at the same time it faces a crisis of productivity and efficiency. Innovation could help improve the quality of education, as well as provide more *“bang for the buck”* in times of budget pressures and rising demand.

Innovation in education



comes from **identifying problems, watching and learning from others**, to develop new methods to **address** these problems, and iterating on them when these experiments don't necessarily give the results you need.

The Age of AI

March 21, 2023. Bill Gates, the well-known co-founder of Microsoft, wrote in his blog, [GatesNotes](#): “The Age of AI has begun.”

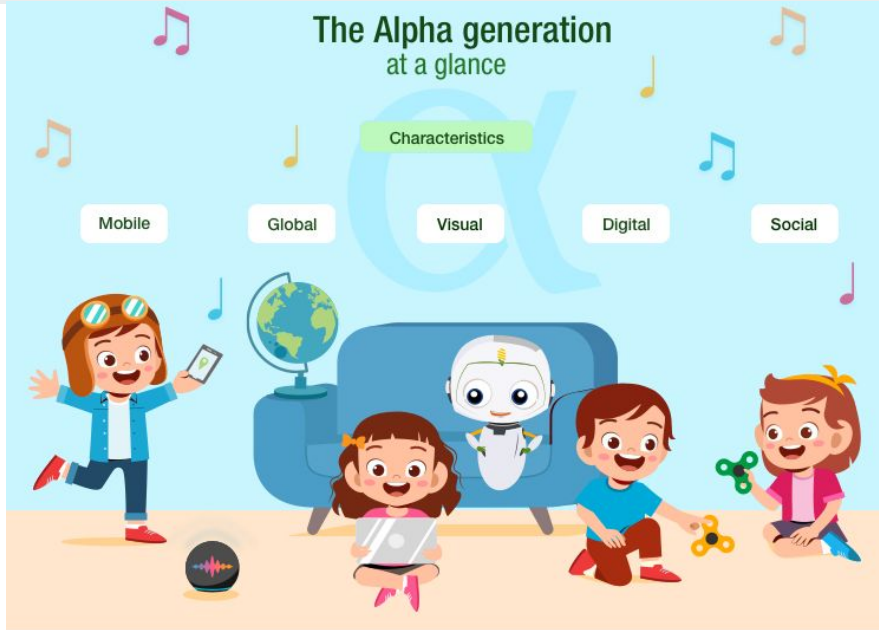
“The development of AI is as fundamental as the creation of the microprocessor, the personal computer, the Internet, and the mobile phone. It will change the way people work, learn, travel, get health care, and communicate with each other. Entire industries will reorient around it. Businesses will distinguish themselves by how well they use it.”

Some definitions

The Council of Europe characterizes artificial intelligence (AI) as a collection of sciences, theories, and techniques designed to **replicate the cognitive capabilities of a human being using machines**. Ongoing advancements in AI aim to enable machines to undertake intricate tasks that were traditionally within the purview of humans.

Simultaneously, The Council of Europe clarifies that experts make a distinction between "strong" AI, capable of solving diverse specialized problems across various contexts autonomously, and "weak" or "moderate" AI, excelling in a specific field of training but lacking the ability to extend beyond it.





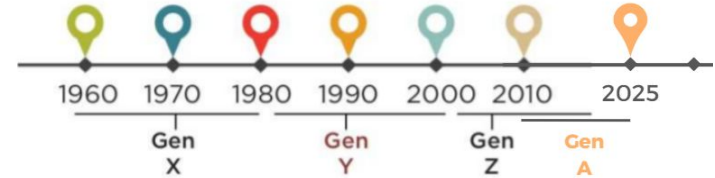
Categories

Birth	From 2010	Leadership style	Inspirational
Social markers	Trump/ Brexit (2016)	Ideal leader	Co-creator
Iconic cars	Autonomous vehicles	Learning style	Virtual
Iconic toys	Fidget spinner	Influence/ Advice	Chatbots
Musical devices	Smart speakers	Marketing	In situ (in real time)

Source: McCrindle.

Challenges with generation A:

- Reduced attention span and concentration.
- Less time for socialising.
- Less development of creativity and imagination.
- Reduced ability to achieve happiness.



What are key competences for living in the 21st century?

What is a competence?

Competences are a combination of **knowledge**, **skills** and **attitudes** appropriate to the context.

- What is the difference?



What is the difference?



Competences are a combination of knowledge, skills and attitudes appropriate to the context.

- **Knowledge:** what we have learned, theoretical concepts, what we KNOW
- **Skills:** what we have acquired, what we CAN do
- **Attitude:** what we have developed, what we FEEL LIKE to do

What is a key-competence?



- **Key competences** are those which **all individuals need** for personal fulfillment and development, active citizenship, social inclusion and employment.
- The key competences are all considered **equally important**, because each of them can contribute to a successful life in a knowledge society.
- Many of the competences **overlap and interlock**: aspects essential to one domain will support competence in another.

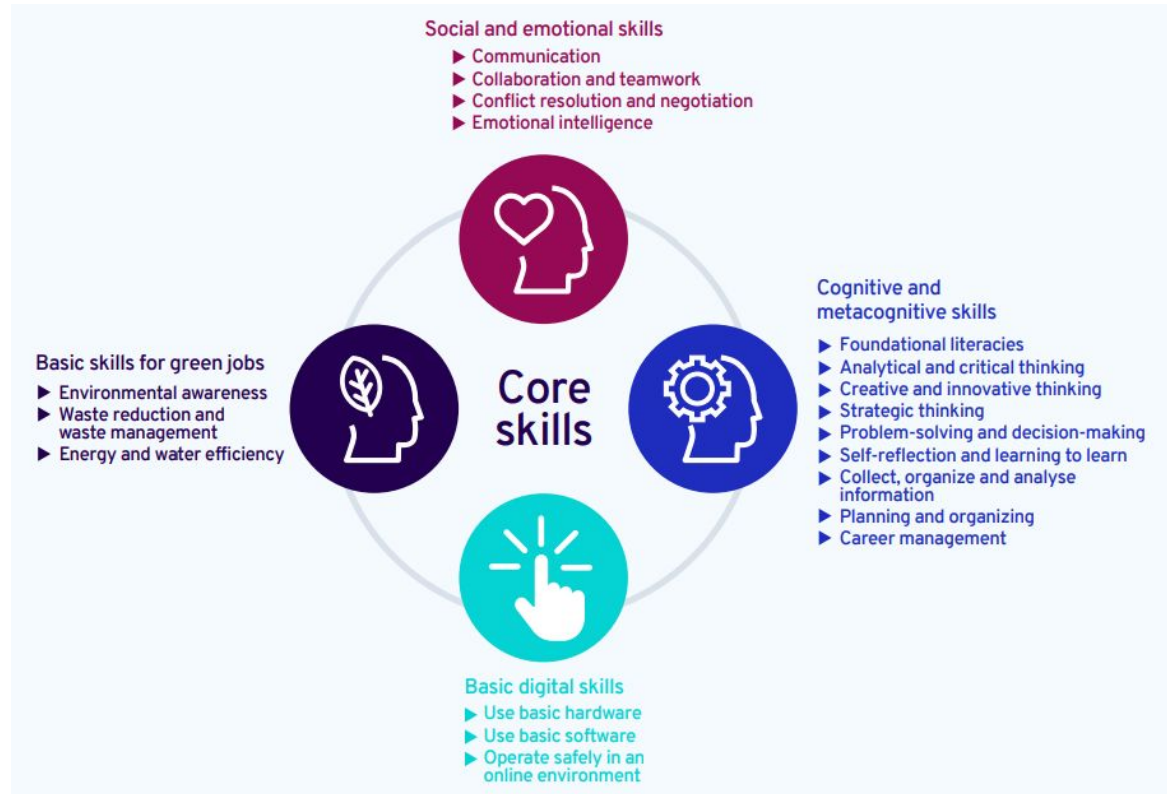
Most required key competences

The European Reference Framework (May 2018) sets out eight key competences that an individual needs for personal fulfillment and development, active citizenship, social inclusion and employment.



X Global framework

on core skills for life and work in the 21st century



Critical Thinking and AI

Critical thinking involves analyzing facts to form a judgment. It is self-directed, self-disciplined, self-monitored and self-corrective thinking.



Creativity,
Critical thinking,
Digital literacy

Crucial competence when using AI:

- **Bias Identification:** Recognize and understand biases in AI algorithms.
- **Data Evaluation:** Critically assess the quality and sources of data used to train AI models.
- **Ethical Considerations:** Make informed decisions about the ethical implications of AI applications.

AI Literacy

Build critical **AI literacy** (Maha Bali, University of Cairo, 2023)

Open discussion to foster an environment of trust and responsibility

Creativity,
Critical thinking,
Digital literacy

Examples of learning tasks that build AI literacy

- Let them check how credible or accurate the outputs are evaluating failings and strengths
- Let them spot biases (exacerbated, reproduced or created) and commercial interests that may be served
- Take note of which data sets are used
- Create different prompt and check and compare the results

Teacher's decalogue



What rules can we set and share in the classroom to not deny the use of AI but to promote a responsible and critical use of this technology?

Teacher's decalogue



- **Transparency: state when AI has been used**
- Support tool, NOT a replacement. You're responsible for the final result
- Accuracy: check any false information
- **Plagiarism: Check and edit the results**
- **Respect: the assignment, if we're checking how you write, WRITE**
- **Ban of its use: if the task is diametrically opposed to the use of AI, don't use it**
- *Protect your privacy: no names, no addresses*
- **Reflection: explain what, how and why you learnt what you learnt**
- *Ethics: not to be used for malicious uses*
- **Keep your own voice and style**

Teacher's decalogue



- Transparency:** no plagiarism, recognize the use of the tool, and keep your own style
- Responsability:** you are the one and only final answer to the results, so fact-check and be accurate
- Respect:** to the classroom, to the assignment, and to the teacher, do the task that you have been assigned (without AI if necessary)
- Privacy:** the only acceptable use of AI is a safe use of it