

Sharing Microlearning Units and Best Practices

Module 5 - AI in Teachers' Continuous Professional Development (CPD)

M5-T2-MLC1

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Learning goals:

Teachers will learn how to share microlearning units and best practices among other teachers. Participants will learn to use AI to adapt, document, translate, improve, and package small learning resources, assuring that the content promotes quality criteria such as clarity, relevance, accessibility, licensing, and alignment with learning outcomes. They will be able to build a culture of collaborative professional knowledge creation.

Why share microlearning units

The reason of sharing microlearning units and good practices within the community of teachers is very simple: we needn't create every content starting from zero whenever another teacher has already completed one. The other teacher might live in another country or teach a 1-year older class so that the content is a bit too strong for your students, and there might be other discrepancies but these no longer pose an obstacle to reuse. Since Open Educational Resources (OERs) exist, collaboration among teachers has become their everyday routine in search of useful and engaging learning material that can be re-used directly or modified to the purpose. Last, but not least they are royalty free. Let's see, how sharing works.

Benefits of sharing microlearning units:

- contributes to teachers' professional development, they can learn from each other
- enables reusing materials instead of recreating them
- saves time for teachers
- assures continuous development of the learning units.

"Open Educational Resources (OER) are learning, teaching and research materials in any format and medium that reside in the public domain or are under copyright that have been released under an open license, that permit no-cost access, re-use, re-purpose, adaptation and redistribution by others." (UNESCO)

Microlearning content can be shared on any dedicated online platform for educators, even developed for a school community. The Digital Menu Card ([DMC](#)) platform also provides a repository for international vocational training instructors, where freely downloadable content is available for a variety of trades.

How to find resources and tools

The Internet offers you plenty of OER repositories with content that you can simply reuse for your class or – in case the Creative Common Licence allows you – you can adopt to your students' specific needs.

Most well-known repositories you can turn to:

Khan Academy- offers you teaching units for different educational level, age groups and subjects. The platform offers short instructional videos, interactive practice exercises, and personalized learning dashboards that cover a wide range of subjects—including mathematics, science, computing, history, economics, and test preparation.

YouTube - Teachers can draw inspiration and resources from high-quality educational channels such as Crash Course, TED-Ed, and Khan Academy, not mentioning the unlimited number of video tutorials for different subjects or topics uploaded by other teachers.

Pixabay, Pexels – free repositories of images, videos, graphic elements out of which you can modify to fit your teaching purpose.

OpenLearn – free usable course, activities, quizzes, videos.

How AI helps you modify

Simplifying complex explanations: you can transform long texts into short, easy-to-digest summaries or expand short paragraphs into detailed sections.

Improving language and readability: AI translates whole documents, keeps or modify the format, provides the outcomes in different languages.

Editing visual content: AI-powered features on platforms like Canva or Davinci AI tools (Sora) let you modify images, videos, using text commands, remove unwanted elements from the background, etc.

Creating differentiated versions: you can ask AI to simplify a text to adopt it to specific student needs or change the format to a more suitable one. AI tools like Diffit, Brisk, MagicSchool, Khanmigo, and Newsela automatically adapt content, complexity, and format for every learner's unique needs.

Generating summaries, quizzes and reflection questions: as an example, the AI-based Mindgrasp provides detailed notes upon uploaded documents in different formats, and creates quizzes based on the inputs.

Adapting materials for accessibility: with [this quiz](#) you'll find the most suitable AI tool rendered to provide accessible content to different types of disabilities in different educational areas.



For example, with AI tools such as Grammarly or QuillBot, you can easily rephrase existing texts to match the desired tone (e.g., formal, direct, or marketing-focused).

Create and share your own

Owing to the different AI applications, you can create your own microlearning units for your class that usually are motivating and engaging for the students and worth sharing with other teachers.



Image 1 – An OER opening page. Source: the Author, using Canva Magic Write

How AI helps you to create

AI can significantly reduce the time needed to design new lessons and learning units. Instead of starting from scratch, teachers can use AI to generate ideas, structure content, and align activities with learning outcomes while retaining full pedagogical control.

Brainstorming: provide the AI with a topic, target audience, learning outcomes, and available lesson time. It can suggest lesson objectives, key concepts, learning activities, discussion questions, and lesson sequences. AI can also recommend active learning strategies, project ideas, and differentiated activities. (*ChatGPT, Microsoft Copilot, Google Gemini, Claude, MagicSchool AI*).

Generating and editing learning content: AI can assist with creating, improving, and adapting educational materials while the teacher reviews the content for accuracy and pedagogical quality. AI can transform lesson outlines, manuals, notes, or source documents into complete lesson plans, learner handouts, worksheets, case studies, or workbooks and can quickly generate assessment directly from lesson content. (*ChatGPT, Claude, Google Gemini, Microsoft Copilot, Grammarly, QuillBot*)

Interactive activities: with AI applications you can create interactive activities: flashcards, learning games, escape-room tasks, discussion prompts, reflection questions, and interactive quizzes that increase learner engagement. (*MagicSchool AI, QuestionWell, Quizizz AI, Kahoot! AI, Brisk Teaching, Curipod, Canva AI Quiz Creator, ChatGPT*).

Documentation and translation: AI can generate concise descriptions of learning units, write learning outcomes, estimate lesson duration, identify

required resources, suggest assessment methods and you can use AI to translate learning materials into multiple languages (*ChatGPT, DeepL, Microsoft Translator, Google Translate, Google Gemini*).

Creating presentations: AI can automatically transform educational content into visually engaging learning resources in PPT (*Gamma, Canva Magic Design, Microsoft PowerPoint Copilot, Google Slides with Gemini, Tome*).

Creating multimedia learning units: AI enables teachers to produce high-quality multimedia materials without specialised technical skills to create create illustrations, diagrams, infographics, icons, and videos that support learning (*DALL·E, Microsoft Designer, Adobe Firefly, ElevenLabs, Speechify, Whisper, Synthesia, HeyGen, Pictory, Canva AI*).

Quality assurance and copyrights

Every case when you create or adopt a microlearning unit, you should make sure that the content is factually accurate, the data within it are correct, justified and the MLC is of good quality, and really aligned with the learning outcome.

Before sharing your content, check if it is:

- understandable
- accessible
- inclusive
- reusable
- legally shareable.

The content is legally shareable in line of authoring rights regulations. Copyright is a legal form of intellectual property that grants creators exclusive rights to control, reproduce, distribute, and display their original works.

[Creative Commons](#) (CC) is an international nonprofit organization whose goal is to facilitate the lawful sharing and use of creative works. The organization provides free, easy-to-understand copyright licenses to content creators.

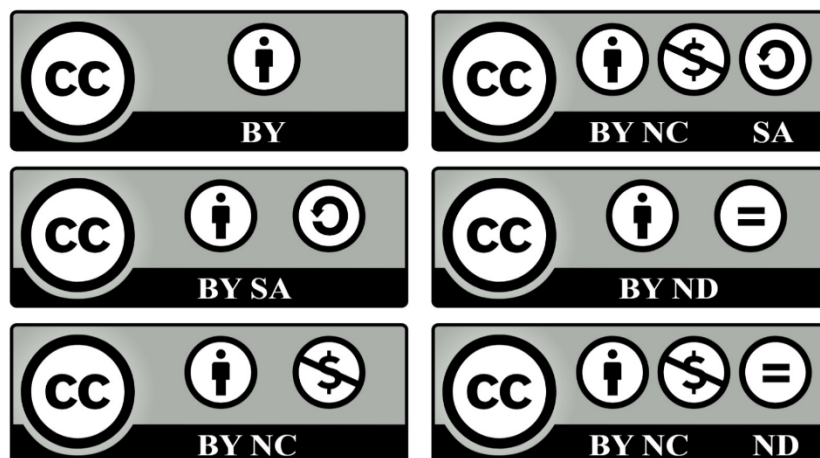


Image2-Creative Commons Symbols. Source: Pixabay

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When sharing your own MLC on a collaborative educational platform, it is important to indicate your copyright, just as it is important to respect the copyrights of others when you download existing educational materials.

Summary

This MLC explains how teachers can collaboratively create, adapt, and share microlearning units by using Open Educational Resources (OER) and AI-supported tools. It introduces reliable repositories where teachers can find reusable educational materials and outlines the educational benefits of sharing resources within professional communities.

The content demonstrates how AI can modify existing learning materials by simplifying texts, improving readability, translating content, adapting resources for accessibility, generating quizzes, and calls attention to regard copyright regulations before sharing. It also presents practical AI applications that support the creation of new learning units, including lesson planning, content generation, interactive activities, presentations, multimedia resources, documentation, and translation.

References

- Alice Bennett (2025): AI and Accessibility: abdicating engagement? [Article on UNESCO website](#), last visited on 15/7/2026
- Prateek Shawl, Puja Devgun (2025): AI in Content Creation, study published on Researchgate and free readable on [International Journal for Multidisciplinary Research](#), last visited on 17/7/2026
- Muhammad Zeeshan (2026): Top 10 AI Video Generation Tools in 2026, published on ResearchGate, https://www.researchgate.net/publication/403254678_Top_10_AI_Video_Generation_Tools_in_2026, last visited on 15/7/2026

Links

UNESCO on OERs: <https://www.unesco.org/en/open-educational-resources>

Benefits of collaborative teaching: <https://inclusiveschools.org/resource/7-benefits-of-collaborative-teaching/>

Khan Academy - <https://www.khanacademy.org/>

YouTube - <https://www.youtube.com/>

Pixabay - <https://pixabay.com/>

OpenLearn - <https://www.open.edu/openlearn/>

DMC - <https://dmc.prompt.hu/hu>

Mindgrasp - <https://www.mindgrasp.ai/quiz-maker>

AI and Accessibility video - [AI for Accessibility: Inclusive Tech in Action](#)

Accessibility Assessment - <https://accessability.org/>

Gamma App - <https://gamma.app/>

Creative Commons for Educators: [Creative Commons Guide for Educators](#)

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