



## Digital Tools 4 Teachers:

**Empowering educators to teach Circular Economy effectively** 

## **TOPIC LIST**



1. Circular Economy explained



2. Preparing for DST



3. Digital Tools 4 Teachers



4. Digital Tools 4 Students



5. Telling Stories about Circular Economy



6. Developing Skills



7. Implementing DST in Schools



8. Initiating Competences for the Future





# BY THE END OF THIS SECTION YOU WILL BE ABLE TO...

Understand the role of digital tools in education: Learn how they enhance teaching and learning

Recognize the benefits of using digital tools: Explore how they improve engagement, collaboration, and efficiency in the classroom.

Identify best practices for implementing digital tools: Gain strategies for effective integration into various subjects.

Apply practical tips for overcoming challenges: Learn actionable solutions to common issues like limited resources and technical skills.



## **OVERVIEW**

Digital tools are transforming the way education is delivered and received. It can make teaching more effective, collaborative and efficient. These tools allow teachers to create dynamic and adaptable learning experiences that actively engage students to give them an impactful education.

For teachers, digital tools are not just a means to deliver content but also a powerful resource to save time, simplify tasks and support differentiated instructions by addressing unique needs of students. They provide valuable real-time insights into student progress, enabling educators to identify weaker areas and adapt their teaching strategies accordingly. Using digital tools successfully requires thoughtful planning, but the benefits are many. Educators must align the chosen tools with their learning objectives to ensure they effectively enhance their teaching process. By integrating digital tools into their practices, teachers not only enhance their ability to deliver effective lessons to students but it also prepares their students for a digital future. Skills that are now increasingly essential in a world where technology plays a central role in in our everyday life.









Digital tools are application, platforms or software designed to facilitate teaching and learning processes. They range from collaborative platforms like virtual whiteboards to multimedia creation tools and classroom management systems. By integrating these tools, teachers can create more interactive, personalized, and efficient learning experiences.







## **Types of Digital tools**



Type of Digital Tool	Purpose	Examples
Collaborative Tools	Facilitate real-time teamwork and communication.	Google Docs, Microsoft Teams, Miro
Multimedia Tools	Allow for the creation of videos, presentations, and visuals.	Canva, Animoto, Prezi
Assessment Tools	Enable quizzes, surveys, and performance tracking.	Kahoot, Socrative, Quizizz
Organizational Tools	Help manage schedules, track progress, and organize resources.	<u>Trello</u> , <u>Asana</u> , <u>Google Calendar</u>
Learning Management Systems (LMS)	Provide platforms for delivering and managing educational content.	Moodle, Edmodo





## How are digital tools useful?

They enhance education by enabling interactivity and fostering collaboration. They can also streamline administrative tasks that can result in teachers saving lots of time and effort. Digital tools help address the diverse learning styles by providing multimedia resources, encouraging student participation through gamified elements and simplifying lesson planning and grading for teachers.









**Personalizing Learning** 

Digital tools can help teachers adapt students learning experiences to their individual learning needs by leveraging LMS platforms and tools to monitor progress. .

Assessing performance

Conduct surveys, polls or quizzes to gauge understanding and gather instant feedback using assessment tools

Facilitating collaboration

Implementing collaborative tools for group projects and peer-to-peer learning can foster teamwork and communication skills.

Streamlining Administration

Use different organizational tools to track assignments, communicate efficiently with students and parents as well as managing lesson plans among other things.







## Benefits of Digital tools for teachers



Digital tools can turn passive learning into an interactive learning experience. It captures attention of the students and maintains their interest, which is one of the main areas teachers can struggle with in classical classroom exercises.

Saves time with ready-to-use tools

Digital tools tools can simplify lesson planning with pre-designed templates and it can reduce the effort required to create engaging materials from scratch.

Aligns with current curriculum goals

It supports 21st century skills like digital literacy and creativity and it can easily be integrated with cross-disciplinary teaching objectives.

Provides Insight and tracking of students

It can help assess how well students grasps concepts through their creative outputs, identify misconceptions and areas for improvement as well as give an inside peek into their own perspectives and opinions. It can also be a useful tool for tracking the progress of students.





## Integrating digital tools in the Classroom

- Plan Your Lesson: Define objectives and desired outcomes
- Select Appropriate Tools: Choose based on project requirements and student needs.
- Provide Guidance: Ensure both teachers and students understand how to use the tools
- **Facilitate use:** Offer tutorials as the students interact with the tools
- Share and Adjust: Present stories and discuss learnings..











Define what are the objectives that you expect students to achieve

Provide sufficient resources

Offers templates, examples, tutorials and support.

Start small

Start with easy tasks and increase their difficulty little by little

(i) Allow for collaboration

Use tools that promote teamwork

Ensure accessibility

Choose tools that are user-friendly and inclusive











#### **Technical limitations**

In order to avoid these as much as possible ensure beforehand that there is access to the needed devices and internet. If you know that this can be a challenge, opt for offline tools that can still be used. Use free or low-cost tools that can work on multiple devices.



#### **Time Management**

Integrating digital tools into the classroom can be quite time consuming. Be sure to set realistic timelines and checkpoints that are flexible enough to adapt to student's needs as well as the curriculums.



#### Skills gap

Not all students will have the same level of skills, provide training sessions if needed. If working in groups, pair tech-savvy students with other less skilled students to create a support system between them









#### **Monitor performance data**

To see if these tools meet learning objectives and are useful for their learning journey



#### **Feedback from students**

Have students give you feedback on what was easy or complicated about the tool, ask if they would use again and what other resources they would need



#### **Create rubrics**

to measure how effectively students utilize the tools in class





## **USEFUL CONCEPTS**



Interactivity
Engaging students through interactive content in digital tools.

Automation
Saving time with tools that can do repetitive tasks for you

Collaboration
Promoting working together with different shared platforms

Accessibility
Ensuring tools are user-friendly for all learners



#### **Definition**

Interactivity - Digital tools allow students to actively participate in the classroom, making them interested and engaged in their learning journey

#### Why it matters

This keeps students engaged and can reinforce understanding of learnt concepts

#### **Example**

Virtual whiteboards for brainstorming during class, even an online class





#### **Definition**

Automation - These are tools that can simplify repetitive tasks such as grading or attendance.

#### Why it matters

This can save teachers a lot of time that they can invest to further better their other tasks.

#### **Example**

Online quiz platforms that have automatic scoring, it avoids teachers having to grade manually.





#### **Definition**

Collaboration - Digital tools that enables group work and allows for simultaneous real-life interaction.

#### Why it matters

It develops important communication skills and teamwork abilities.

#### **Example**

Shared documents for group projects where each participant can edit, share and comment on each other's work.





#### **Definition**

Accessibility - Digital tools can provide equal opportunities for all students to learn at their own pace with their own diverse needs.

#### Why it matters

It ensures inclusivity and caters to all students with diverse needs

#### **Example**

Text-to-speech or close-captions features







#### Issue

Teachers may feel overwhelmed when integrating new tools.

#### What to do...

Start with familiar tools

Begin with user-friendly tools that you have good knowledge in. These can be widely-use common friendly options like Kahoot.







#### Issue

Students may be hesitant to try new tools.

#### What to do...

Encourage exploration

Allow students time to explore tools through guided, simple activities before applying them to more difficult assignments.







#### Issue

Teachers or students may struggle with structure and formatting when starting a project.

#### What to do...

Use templates where possible

Provide pre-designed templates for tools like Canva or Book Creator, templates. Include prompts or placeholders in templates to help gain focus on the use of the tools. These templates can be to modified as you gain confidence and creativity.







#### Issue

Teachers might start using a digital tool without a clear goal or objective in sight.

#### What to do...

Focus on objectives

Always align the features of the tool with the specific needs you want to achieve inside or outside of the classroom.





#### Issue

Teachers may not know exactly how useful the tools they use are.

#### What to do...

Collect feedback from students about their experiences with the tool and with this feedback, adjust the use of the tool as needed.



## CHECK WHAT YOU'VE LEARNED

- You understand what digital tools are and how they enhance education.
- You've explored how digital tools improve engagement, collaboration, and efficiency in the classroom.
- 13. You know best practices for integrating digital tools, addressing challenges, and promoting inclusivity.
- You are equipped with actionable tips to implement digital tools effectively in your teaching practice.









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