

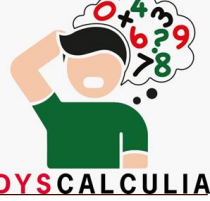
Dyscalculia

LT TA2 E-Learning in School

Helene Lindenthal



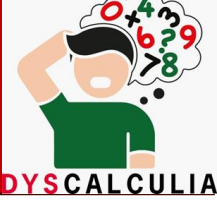
E-Learning in School



1. Discussion of experiences
2. Overview of e-learning in school
3. Overview of videos as part of e-learning in school
4. Discussion of videos as part of e-learning in school



Discussion of experiences



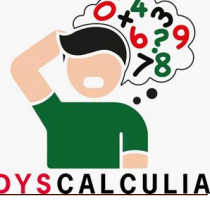
Please share your experiences of e-learning in school

- What are your **best practices**?
- What do you see as the **advantages** of e-learning in school?
- What do you see as the **disadvantages** of e-learning in school?

<https://padlet.com/helenemajalindenthal1/dyscalculia-ltta2-5jjhwpajwi9k89sl>



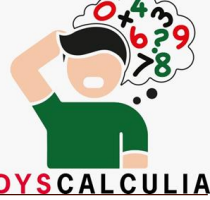
Overview of e-learning in school



- E-learning has long been part of schools
- shared platforms
- shared digital classrooms
- digital submissions or exams



Overview of e-learning in school

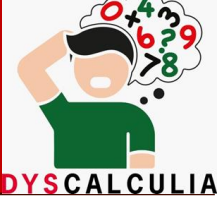


E-learning platform

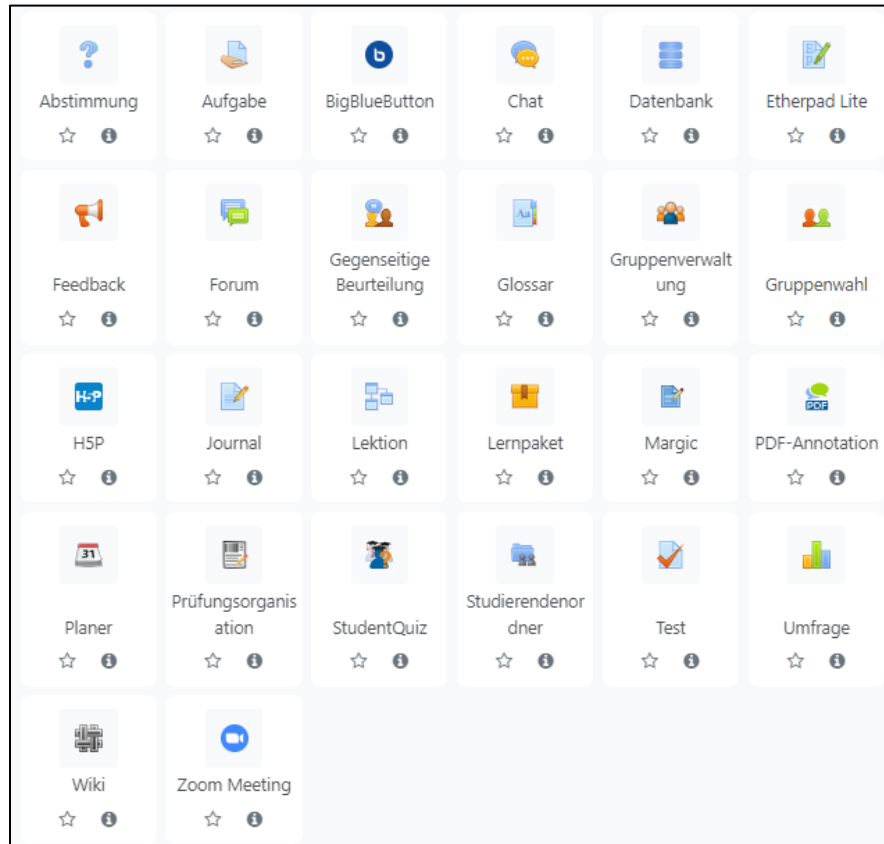
- Many features
- One class/course
- Share documents, links, group work
- Provide feedback, peer review, comments
- Submissions, tests, exams
- Discussion forum, Wikis



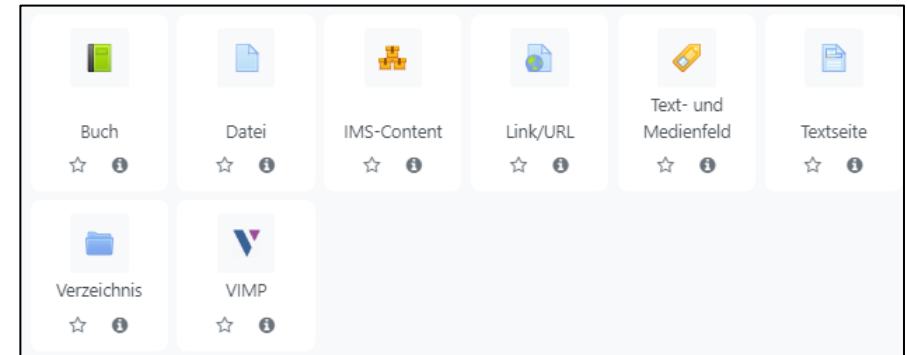
Overview of e-learning in school



E-learning platform: example PANDA of University Paderborn

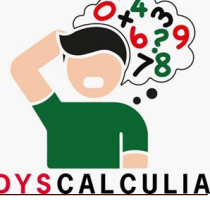


course
material



activities

Overview of e-learning in school

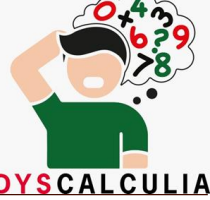


Virtual Classrooms

- Corona pandemic: everything changed
- New opportunities for teachers
- Classes and courses can be held online
- Tools: Zoom, Teams, internal platforms



Overview of e-learning in school



Blended Learning

- Blending of online and face-to-face
- Trying to combine the advantages of both
- Example: class in school and using online voting tool

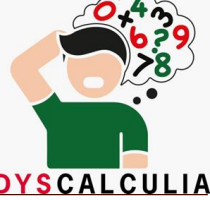


Face-to-face teaching has many advantages: strengthens social ties, organised schedule, questions can be clarified directly



Online voting tool has many advantages: Saves time, saves paper, interactive, motivating

Overview of e-learning in school

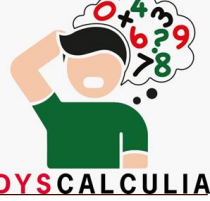


Personalized learning

- Many digital learning environments offer personalized learning
- Example: PANDA
 - Offer personalized tasks
 - Can ask questions
 - Give individual feedback
- Huge opportunity for dyscalculic students
 - Personalized offerings from teachers



Overview of e-learning in school

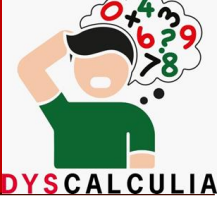


Accessibility and inclusivity

- E-learning should have no boundaries
- Accessible for everyone
- Should include everyone
 - Learners with disabilities and different learning needs
- Different learning formats available



Overview of e-learning in school

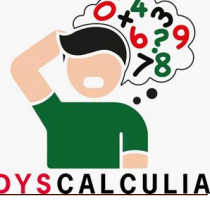


Collaboration tools

- Collaboration tools can be used in both online and face-to-face learning environments
- Offers different kinds of partner-, group work
- Changing collaborations can help learners with different needs



Overview of e-learning in school

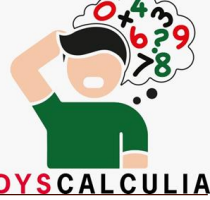


Individual development of competencies

- Digital competencies are one of the main competencies needed in today's world and workplaces
- The sooner students learn to use, learn and work with them, the better they develop their digital competencies and the better they can operate in the digital world and future workplaces
- Teachers need to provide opportunities for learners to use, learn and work with them
- Teachers need to give feedback regularly



Overview of e-learning in school

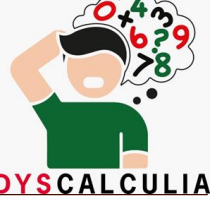


Feedback

- Students need feedback on their digital learning, development of competencies and online behaviour regularly
- Feedback tools
 - Example: PANDA
 - Peer review
 - Survey
 - Test, exam
 - Quiz



Overview of e-learning in school

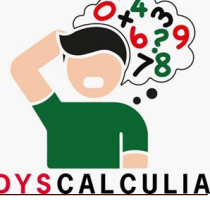


Online resources

- E-books
- Educational platforms, apps
- Serious games
- MOOC
- Videos



Overview of e-learning in school

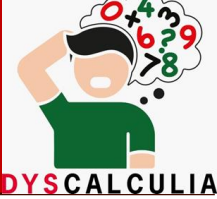


Considerations

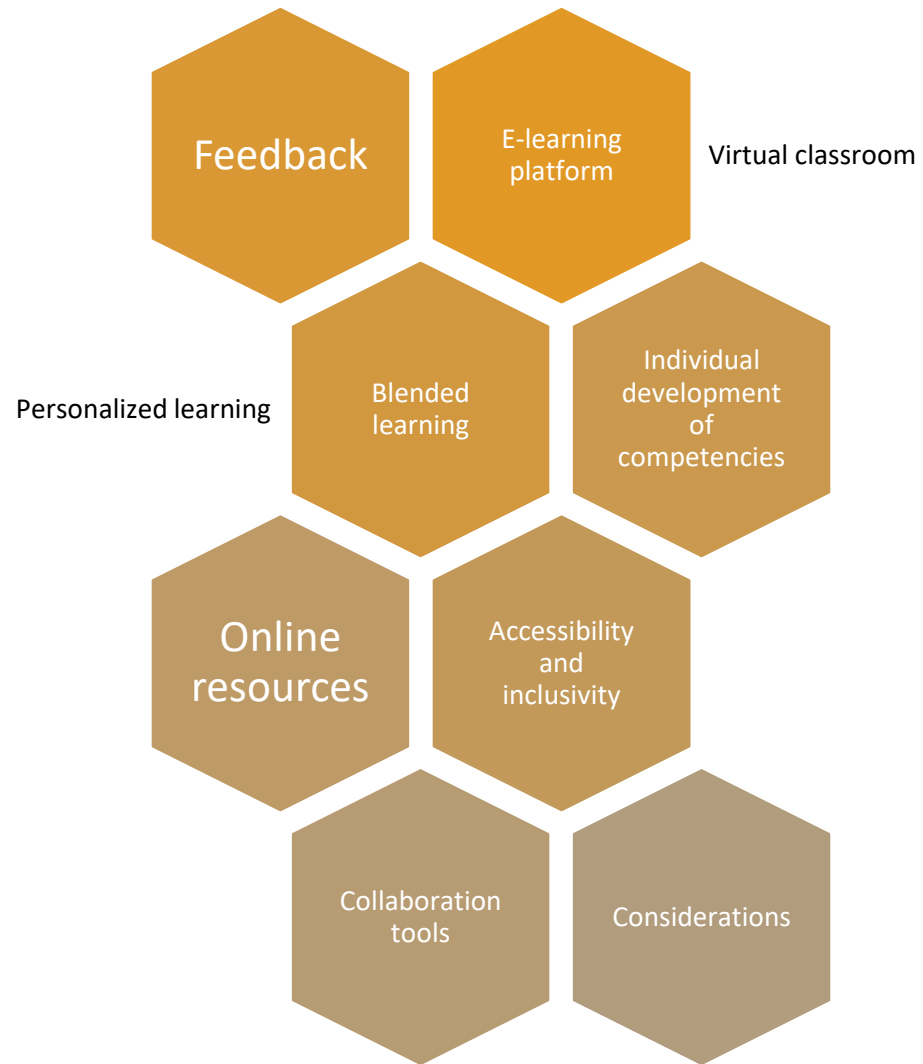
- Need access for everyone (mobile phones, tablets, computers, Wi-Fi)
- Screen time
- Dangers on the internet (phishing, hackers, pornography, personal data)
- Teachers need to be aware of dangers and let students know
 - Set rules
 - Keep an open communication



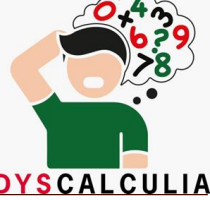
Overview of e-learning in school



Summary



Overview of videos as part of e-learning in school



- Videos are an additional resource for e-learning in school
- Engaging way to deliver educational content
- Different types of learning videos
- Different methods of including videos in class



Overview of videos as part of e-learning in school



Different types of learning videos

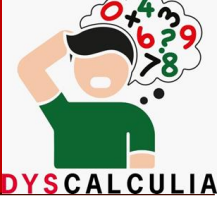
Type of video	Definition	Source	Example
Instructional video	are meant to teach people something or to offer them help with a particular problem	https://www.collinsdictionary.com/de/worterbuch/englisch/instructional-video	https://www.youtube.com/watch?v=X5oD_thlk3c
Explanatory video	Explainer videos are audiovisual content that serve to convey complex information or concepts in an understandable and entertaining way. They combine visual elements such as animations, graphics or live action scenes with explanatory text or spoken word.	https://www.explain-it-simple.com/en/explanatory-video/	https://www.youtube.com/watch?v=LqVqzE1utKw

Demonstration video	showcase a product or service in action; usually, a demo video is created to demonstrate the features of a product or service and how it meets a particular need	https://www.fortaymedia.co.uk/explainer-videos-and-demo-videos/	https://www.youtube.com/watch?v=Nvb_Kta7v6U
Documentaries	about an event, person, etc, presenting the facts with little or no fiction	https://www.collinsdictionary.com/de/worterbuch/english/documentaries	https://www.youtube.com/watch?v=iXBx4TSQAoc&list=PLOAYoVNh29hSF4AwsFT4AJWG06IJ4sfva
Simulation videos	the process of creating a model of a real-world scenario for a variety of reasons including education, preparing for an anticipated event or troubleshooting a problem; the models used during a simulation might be real or dramatized	https://study.com/academy/lesson/simulations-definition-uses.html	https://www.youtube.com/watch?v=J_7atuANX-g

Case study videos	a piece of persuasive content that are used to illustrate the value of products or services, through the telling of real stories	https://www.vidyard.com/blog/case-study-videos/#:~:text=to%20Inspire%20You-,What%20is%20a%20Case%20Study%20Video%3F,authenticity%20to%20your%20marketing%20efforts.	https://www.youtube.com/watch?v=P1maW1L_lc8
Interactive videos	a computer-optical disk system that displays still or moving video images as determined by computer program and user needs	https://www.collinsdictionary.com/de/worterbuch/englisch/interactive-video	https://www.youtube.com/watch?v=52ZkFD-YlmY
Historical reenactment	re-enactment of a scene or incident		https://www.youtube.com/watch?v=fHHg_xfEl_8

Virtual tours	digital copies of an existing place	https://scene3d.co.uk/virtual-tour-vs-video/	https://www.youtube.com/watch?v=EOgwIAU05Y8
Interviews	see someone being interviewed		https://www.youtube.com/watch?v=T2F4iP2ocBo

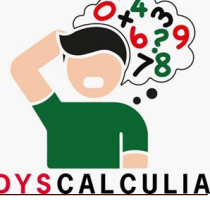
Different methods of including videos in class



- Depends on the purpose of the video (see types of videos)
- As an introduction, in the main part or at the end of the class
 - Introduction: can motivate, raise curiosity
 - Main part: can offer different learning opportunities, additional sources, helps with different kinds of learning needs for students with learning disabilities
 - End: summary, outlook, cliffhanger



Overview of videos as part of e-learning in school



How to create your own video

<https://www.youtube.com/watch?v=52NjAAvxqXg>



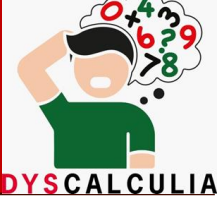
https://www.youtube.com/watch?v=cLLuuV_57JY



<https://www.canva.com/>



Discussion of videos as part of e-learning in school



Please share your experiences with videos

- What are your **experiences** with videos as part of e-learning in school?
- What do you see as the **advantages** of videos as part of e-learning in school?
- What do you see as the **disadvantages** of videos as part of e-learning in school?

<https://padlet.com/helenemajalindenthal1/dyscalculia-ltta2-5jjhwpajwi9k89sl>



Ideas for videos



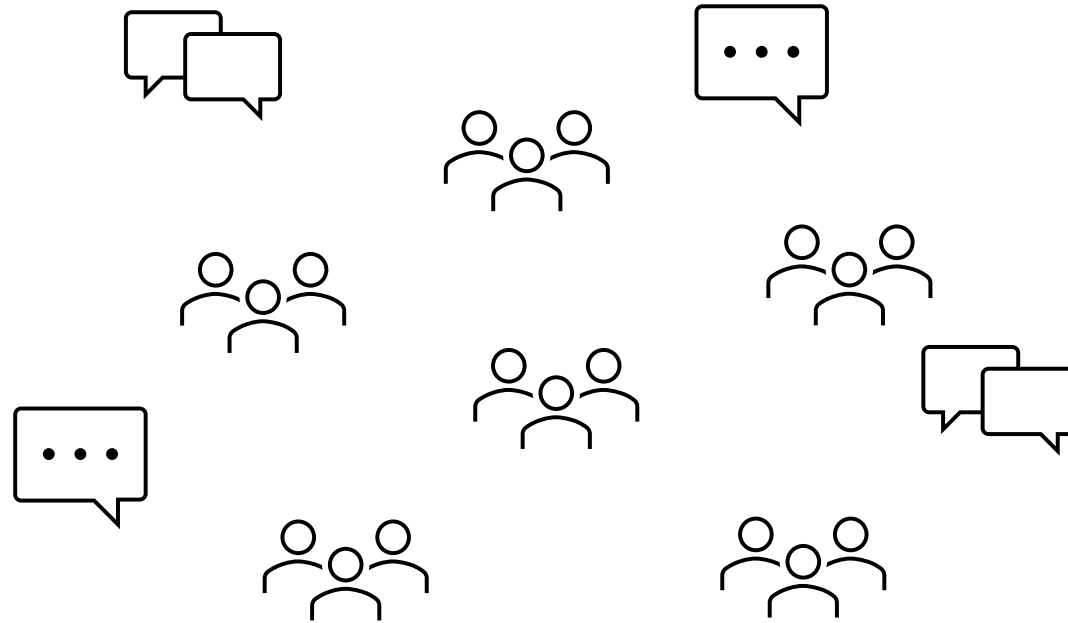
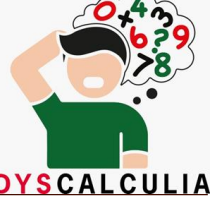
1 about dyscalculia in each partner country

1 about why support of dyscalculic students in Europe is important

English and partner language



Discussion



The European Commission support for the production of this publication does not constitute an endorsement of the contents which reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.



Contact



Warburger Str. 100
DE-33098 Paderborn
Web www.uni-paderborn.de/en

Prof. Dr. Marc Beutner

Professor and Head of Chair of Business and
Human Resource Education II
Faculty of Economics

Office Q1.441

Telephone +49 5251 60-2367

E-Mail marc.beutner@uni-paderborn.de

Helene Lindenthal

Research Assistant
Faculty of Economics
Chair of Business and Human Resource
Education II

Office Q1.451

Telephone +49 5251 60-5010

E-Mail helene.lindenthal@uni-paderborn.de



The European Commission support for the production of this publication does not constitute an endorsement of the contents which reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.



Co-funded by
the European Union