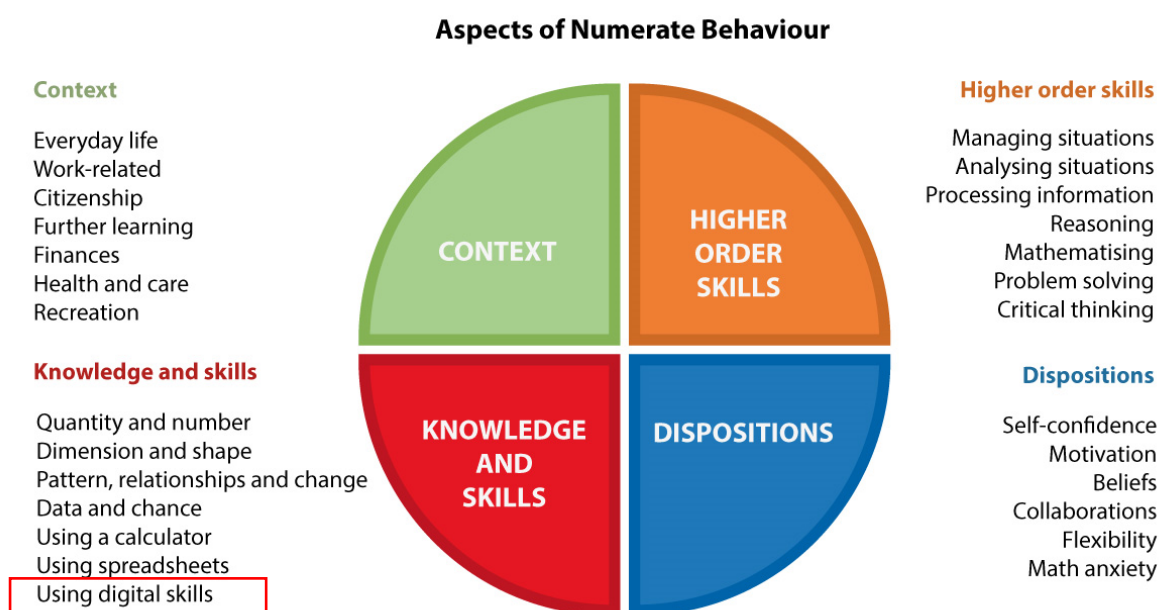# Synchronous Learning with Moodle

INTRODUCTION

Despite the fact that teaching presence roles have frequently been overlooked in online learning environments, new research has recognized their growing significance after the covid pandemic. The ability to learn and teach simultaneously in real-time through synchronous online learning helps to overcome obstacles related to physical boundaries of students' online education. Research shows that attending classes—even those held in physical classrooms—or online learning does not guarantee that students will learn. This projects' objective was to look into the impact of students' cognitive engagement in numeracy classes with synchronous learning by use of Moodle, both their academic success and contentment.

KEY ISSUES

- Which obstacles related to physical boundaries can be overcome by synchronous learning by use of Moodle?
- How can synchronous learning by use of Moodle be implemented in adult numeracy courses?
- What is the impact of students' cognitive engagement in numeracy classes with synchronous learning by use of Moodle?

RELATION TO CENF

Aspects of Numerate Behaviour

Context

Everyday life
Work-related
Citizenship
Further learning
Finances
Health and care
Recreation

Knowledge and skills

Quantity and number
Dimension and shape
Pattern, relationships and change
Data and chance
Using a calculator
Using spreadsheets
Using digital skills

Higher order skills

Managing situations
Analysing situations
Processing information
Reasoning
Mathematising
Problem solving
Critical thinking

Dispositions

Self-confidence
Motivation
Beliefs
Collaborations
Flexibility
Math anxiety

CONTEXT — HIGHER ORDER SKILLS — KNOWLEDGE AND SKILLS — DISPOSITIONS

SUGGESTIONS FOR PD MEETINGS

1. Issues around synchronous online learning environments

Discuss the flowing issues around synchronous online learning environments

The term "synchronous online learning environments" refers to a type of learning where students can communicate with teachers and other students in real-time by using synchronous online learning resources like chat rooms and video conferences (Ji, Park, & Shin, 2022). This method of instruction is thought to evolve into "a post-corona era learning paradigm shift" (Ji, Park, & Shin, 2022, p.1). Still, a pedagogical, social, and technical components should be present in a good learning environment. Pedagogical elements in this paper refer to the application of effective teaching techniques in synchronous online learning to increase the efficacy of the teaching and learning process (Tang & Hew 2017).

Face-to-face interactions in the classroom cannot be replaced by online synchronous learning (Carbajal-Carrera, 2021; Andel et al., 2020). This may be explained by the fact that attendance in classes—whether they be online or in physical classrooms—does not guarantee that students will learn.

2. Discuss the supplies for Moodle and virtual classroom organisation

Since setting up the physical classroom is something that all teachers have to do before classes start, it makes sense to start there when we start to discuss classroom management. Once they understand how the classroom will be set up virtually, many teachers find it easier to plan other aspects of classroom management.

Good virtual classroom management in four keys:

1. Ensure that the teacher can easily see the students virtually.
2. Ensure that students' supplies and frequently used teaching materials are easily accessible on the Moodle platform.
3. Ensure that displays and presentations for the entire class are easily visible to students. Position desks so that students are facing and have easy access to the main area for whole-group instruction.
4. Virtual small-group instruction areas: Set this up so that, while being virtually, the teacher still can keep an eye on the remainder of the class.

3. Discuss the organizing of a successful start of the course

Establishing a welcoming and comfortable learning atmosphere for your class is an excellent way to begin the virtual course. Greeting the adults, introductions, room descriptions, get-to-know-you exercises, rules, procedures, and consequences presentations and discussions, content activities, time fillers, and administrative tasks (like handing out virtual exercises) are a few examples of common activities.
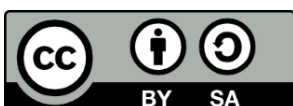
4. Discuss the checklist for online synchronous learning

- Which ideas or abilities need to be mastered the most?
- Which type of learning—memorization, application, or appreciation—is your objective? Have you let your students know about this?
- Which type of learning is this lesson aimed at? Are you using different methods of learning?
- Are there any complex ideas that require further explanation?
- How will you assist students in drawing connections to prior knowledge?
- How are you going to pique students' interest in the lesson?
- How will you handle changing from one activity to another?
- What supplies are required? Will using them be something that students must learn?
- Which steps are necessary for students to know in order to finish the activities?
- What is the estimated duration of the lesson? for various sections of the instruction?
- In the event that cooperative learning is required, how will groups of students be assembled? How are you going to promote effective group work?
- Which questioning techniques and examples will you employ? Make a list of higher-order questions and examples for explanations.
- How are you going to assess students' understanding both during and after the lesson?
- In the event that students struggle conceptually, what are some other presentation options?
- Do any students require extra or special assistance?
- How are you going to ensure that every student takes part?
- In the event that the lesson lasts longer than expected, how will you modify it?
- At the conclusion of the class, what kind of product—if any—do you anticipate the students producing?
- After they're done, what will the students do?
- How are you going to assess student work and provide feedback?
- How will the lessons you taught the students apply the concepts you presented?

BACKGROUND INFORMATION

A guide to manage "whole-group online instruction" with the materials

The idea of activity flow - the degree to which a lesson proceeds smoothly, without digressions, diversions, or interruptions - is central to effectively managing teacher-led activities. Because most of the cues for behaviour during a lesson are focused on behaviours appropriate for the lesson, lessons with good flow maintain students' attention and discourage deviation. The following topics are important:

Preventing misbehaviour:

- The teacher's "with-it-ness" refers to how quickly and appropriately she corrects misbehaviour before it gets worse or affects more students.
- How a teacher responds to two or more concurrent events is referred to as overlapping.

Controlling motion

- While "with-it-ness" and overlapping are achieved by managing outside disruptions and student incursions into the lesson's flow, movement management is achieved by preventing interruptions or delays brought on by the teacher.
- Lessons that proceed quickly are indicative of momentum, which is a term for pacing;
- Lesson continuity is a prime example of smoothness. A lesson that flows well holds students' attention.

Keeping the group's focus

- A teacher needs to be aware of how the instruction is influenced by the group. Numerous strategies can be used to keep the group focused.
- Group alerting is the process of drawing the class's attention while individual students are still responding.
- When a teacher informs students that their performance will be watched and assessed in some way, accountability takes place.
- Lessons with high participation involve programming students' behaviour even when they are not directly answering a teacher's question.

Typical issues with teaching transitions are the spaces between any two activities.

- Issues include protracted wait times, which may be linked to a high incidence of improper or disruptive behaviour.
- Clarity entails defining goals or major objectives and ensuring that students understand what they are expected to know or do; meticulously planning a lesson sequence that progresses from simpler to more complex ideas; Giving written and oral instruction; confirming understanding through the use of work samples or targeted questions; and offering meaningful practice and feedback through homework assignments that cover all of the skills and content covered in class.

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