

ELIXIR-GOBLET TtT shared notes –

Session 1

Date: Belgium 2025

Trainer: Bruna Piereck

Challenge 1.3

Why is it important for a teacher to learn about how people learn?
Identify one main reason and write it
(5 min)

Pair	Why you think it's important
1	For the students to enjoy the experience of the course so they remember the knowledge. Adapt to heterogenous audience with different level of pre-existing skills.
2	If we know how they learn we can manage the course to reach more students and achieve together the planned goals. As a teacher you can be confident
3	To be more effective,
4	A teacher can show you how to do it and correct you instantly when you are making a mistake.
5	Adapting teaching methods to achieve permanence for different individuals (dependent on the subject of the course)
6	To achieve the desired behaviour (= to make sure that what you teach sticks).
7	
8	
9	To know whether our way of teaching is effective in the long run, or we would need to change our method.
10	
11	
12	
13	
14	

How short is your short term memory?

- How many consecutive letters can you remember?
-  Write it in the GDoc

[illegible]

Challenge 1.6

Think about one of your courses and formulate 1 LO.

Write and specify to what level you are referring.

(3 min)

Name	Learning Outcome
Nicolas	Be able to explain the difference between a queue channel and a value channel (UNDERSTAND: explain)
	Apply, be able to perform 5 types of bloodsampling in mice Create, be able to plan the most appropriate type of bloodsampling out of 5 types, depending on the goal, and justify the choices in experimental design.
	Perform cell splitting independently and calculate the splitting ratio for their cell line.
Nicole	Students pipette liquids with micropipettes independently and choose the correct one for each volume. (APPLY)
Matheus	Choose 1 repository to deposit your research data.
Jef	- Be able to distinguish permission inheritance and recursiveness in permissions - predict what happens to the permissions on a folder structure when one of those principles is applied. (UNDERSTAND)
Emily	The participants can select the correct template in DMPOnline, answer the questions from the sections, download the pdf and upload it in PURE for their current research project. (APPLY)
Ethan	The participants should be able to list the steps it takes to translate scientific discovery to a real-world product, and be able to decide (on a high level) which specific approaches/routes to take for each science valorization opportunity
	Detect objects of interest on an image. - Define what an image is, - List different method to separate image regions

What do you expect to take home from this course?

Challenge 1.6

How can you avoid overloading learners' working memory?

 5 min (+ 3 to discuss)  In groups of 2-3

- Discuss one thing a teacher could do to avoid overloading their students' working memory.
-  Write it in the GDoc

Room #	People in room	How to avoid overloading
Room 1		-
Room 2		-
Room 3		
Room 4		

Room 5		

Challenge 1.7

Extraneous cognitive load

 8 min (+ 3 to discuss)  In groups of 2-3

- Think about the following learning experiences:
 - lecture
 - work in groups
 - Individual classroom exercises
- What would be an example of an extraneous load that might interfere with the experience?
- How can you (the instructor) avoid it?
- Discuss with your partner(s)
-  Write it in the GDoc

Room #	People in room	Lecture	Work in groups	Individual classroom exercises
Room 1				
Room 2				
Room 3				

Room 4				
Room 5				

Challenge 1.8 – optional

How do you understand the 6 strategies for effective learning?

 8 min (+ 3 to discuss)  In groups of 2-3

- Work in six groups – Each group works on a strategy
- Discuss the learning strategy: did you understand it the same way? Do you have any questions?
- Find out an example of how you would implement it as a teacher/instructor (what would you do as a teacher in order to facilitate learning based on the strategy at hand)
-  Write it in the GDoc