INTEGRATING REFLECTION INTO TEACHING AND LEARNING

Katherine Lithgow & Victoria Feth Centre for Teaching Excellence





THIS WEBINAR WILL ANSWER QUESTIONS LIKE:

- Where does reflection fit into your and your students' plans?
- What should students reflect on?
- How can you get started designing reflective activities for your course?
- What are some approaches you can take to assessing reflection?





WHY REFLECT?

Where does reflection fit into your and your students' plans?

"We had the experience, but missed the meaning."

- T.S. Eliot, Four Quartets

KOLB'S LEARNING CYCLE

 Kolb's learning cycle explicitly references the need for reflection in order to make sense of our experiences. Concrete experience

Testing implications of concepts in new situations

Observations and reflections

Formation of abstract concepts and generalizations



WHY IS REFLECTION CRITICAL TO LEARNING?

- An experience without reflection is just an experience.
- Experience alone might cause us to "reinforce stereotypes... offer simplistic solutions to complex problems and generalize inaccurately based on limited data" (Ash & Clayton, 2009, p. 26).



MAKING SENSE OF OUR EXPERIENCES

- According to Ash & Clayton (2009, p. 27), engaging in critical reflection helps us
 - articulate questions,
 - confront bias,
 - examine causality,
 - contrast theory with practice, and
 - identify systemic issues—
- all of which help foster critical evaluation and knowledge transfer.



WHAT IS REFLECTION?

Let's see what the experts say.

"We don't learn from experience... we learn by reflecting on the experience."

- John Dewey

ACCORDING TO DEWEY, REFLECTION

- is a learned skill. It must be practiced and informed by feedback.
- is a complex, rigorous, intellectual exercise.
- is also an emotional exercise.
- is a meaning-making process
 - Reflection helps us set goals, use what we've learned in the past to inform future action and consider the real-life implications of our thinking.
- the link between thinking and doing.
- takes time to do well.

Dewey, 1916/1944; Schön, 1983; Rodgers, 2002



ALSO, ACCORDING TO DEWEY



Reflection

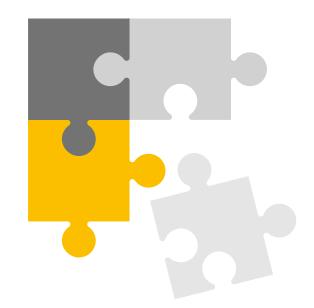


Harmony / Equilibrium



ACCORDING TO RODGERS' FOUR CRITERIA FOR REFLECTIONS

- 1. Reflection is a meaning-making process.
- 2. Reflection is systematic, rigorous and disciplined; with roots in scientific inquiry.
- 3. Reflection needs to happen in community.
- 4. Reflection requires attitudes that value personal and intellectual growth.





FOUR CRITERIA FOR REFLECTIONS - RESPONSIBILITY

3. Reflection needs to happen in community.

- Reflection is a socio-cognitive process.
- We must take responsibility for our learning.
 - What are the real-life implications of my thinking? Our meaning making might mean that the way we participate in the world must change.
- Reflecting in community e.g., in groups, can engender the feeling of disequilibrium.



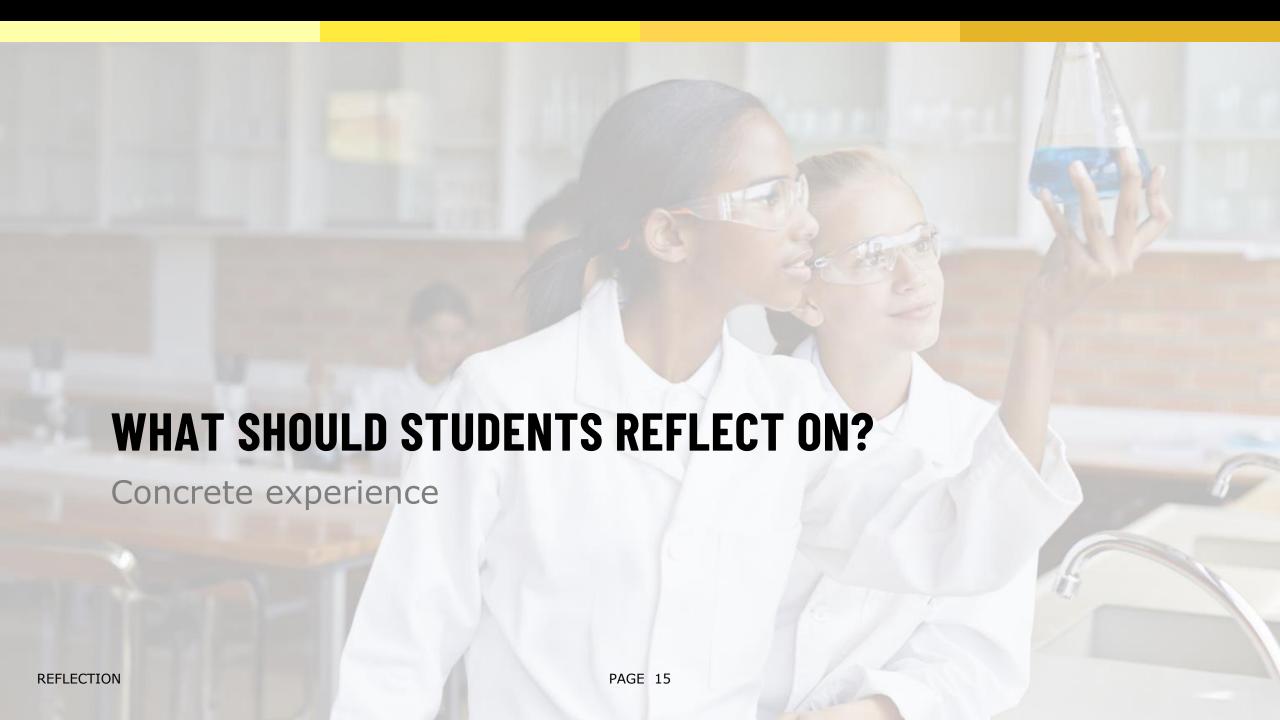
FOUR CRITERIA FOR REFLECTIONS - ATTITUDES

- Curiosity motivates reflection.
- Learners need to be curious and enthusiastic about their learning/ experiences.
- This is what Dewey called "whole-heartedness".

National Commission on Teaching and America's Future, 1996

4. Reflection requires attitudes that value personal and intellectual growth.





LET'S REVISIT KOLB'S LEARNING CYCLE

Concrete experience

Labs, Observations,
Simulations,
Games, Fieldwork,
Readings, Films,
Problems, Examples

Testing implications of concepts in new situations

Observations and reflections

Looking: Forward, Backward, Inward, Outward

Formation of abstract concepts and generalizations



CONTENT / ACTIVITIES / EXPERIENCE

Content / Activities	Concepts, theories, frameworks covered in a course through:
Experience	Feelings, reactions, transferable skills associated with an experience:
REFLECTION	PAGE 17 WATERLOO

PROCESS

Process	Example Questions
Research	How do I approach a research topic/assignment?
Completing an assignment	What do I need to complete this assignment?
Working in groups	How do I make this group work together?
Studying for exams	How did I study for this exam? (Exam wrappers)
Writing and editing	What steps are involved in the writing process?
Reading	In a journal article, in what sections do I look for different pieces of information?



REFLECTING FROM DIFFERENT PERSPECTIVES

Forward-Looking



www.flickr.com

Inward-Looking



http://www.jeremiealtman.com/who-do-you-see-in-the-mirror/

Backward-Looking



https://pixabay.com/static/uploads/photo/2015/02/10/14/10/photo-album-631084_640.jpg

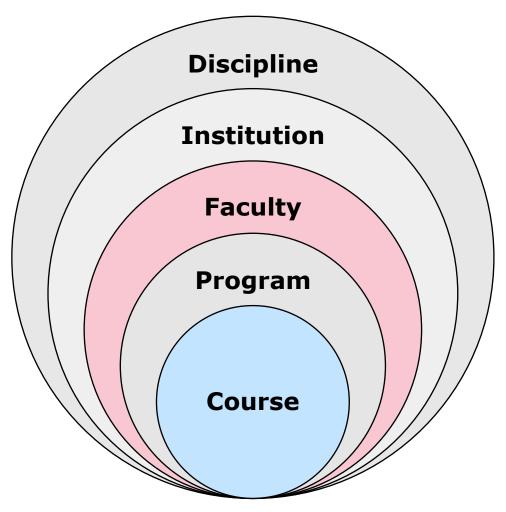
Outward-Looking



https://www.laserfiche.com/content/uploads/2014/01/skyscraper-window.jpg

WHEN SHOULD REFLECTION OCCUR?

- In a course → ideally more than once
- Some evidence suggests students need at least three opportunities in a course.
- Ideally, reflection is integrated and scaffolded beyond!





STUDENTS MAY HAVE COMPETING PRIORITIES

- We need to put forth our best effort to create the conditions for students to reflect, because students decide how much of their effort to put forth based on
 - how interested they are in the assignment,
 - how well they understand the task,
 - how many other assignments they have,
 - how much time they have available,
 - how much the task is worth to their overall grade,
 - what they know about the marker, and so on.

Ryan, 2015, pgs. 14 and 233



STUDENTS: "WHY ARE WE ENGAGING IN REFLECTION?"

- Design should be:
 - Intentional meaningful time on task
 - Transparent goals and components need to be understood by students enhances motivation
 - Interactive between students and faculty, peers and community, and more
 - Structured throughout, not just at the end

http://blogs.elon.edu/cel/high-quality-high-impact-practices/



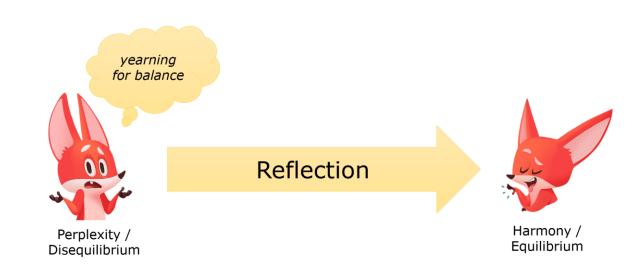


HOW CAN YOU GET STARTED DESIGNING REFLECTIVE ACTIVITIES FOR YOUR COURSE?

Reflective frameworks/models

CURIOSITY MOTIVATES US TO REFLECT

- How can we cultivate curiosity?
 - Ask provocative questions;
 use <u>question prompts</u>.
 - Provide opportunities for students to make connections to experiences outside of the classroom.
 - Provide interesting activities, assessments, problems, and tasks, that create a sense of Dewey's "disequilibrium".





BAIN'S 5 Rs (4 Rs)

Reporting

- Trigger for reflection
- Write a brief descriptive account of the experience or issue.
- What happened?
 What did the experience involve?

Responding

- Affective domain
- Your emotional / personal response to the experience
- Your observations
- What were your feelings, ideas, questions about the experience?

Relating

- Personal and / or theoretical understandings relevant to the experience
- Making connections between the situation / issue and your experience, skills, knowledge and understanding

Reasoning

- Your explanation of the experience
- Explaining the experience in terms of the significant factors, relevant theory, and existing knowledge

Reconstructing

- Drawing conclusions and developing a future action plan
- •Your deeper level of understanding about the situation / issue that is used to reframe or reconstruct your future practice and further develop understanding of your professional practice

Bain, J.D., Ballantyne, R., Mills, C. & Lester, N.C. (2002) Reflecting on practice: Student teachers' perspectives, Post Pressed: Flaxton, Qld



STAR (L)

Situation

 Briefly explain the task or experience and the context.

Task

 What was the task you were required to undertake or engage in?

Action

 What did you do?
 Make sure you write from an 'I' perspective.

Result

 What were the results of your actions? (They may not be as successful as you hoped. Often it is the negative examples that show how you learn and develop your skills.) How do you personally evaluate your success or the effect of your practice?

Learning

 What did you learn from this experience and how might it affect future practice and performance? What would you do differently in future? What do your plan to follow up? What further learning opportunities will you look for?



WHAT? SO WHAT? NOW WHAT?

What? (Description and Self- Awareness)	So What? (Analysis)	Now What? (Synthesis)
 What happened? What did I do? What did the other do? What was I trying to achieve? What was good or bad about the experience? 	 So what is the importance of this? So what more do I need? What did I learn? 	 Now what could I do? Now what might be the consequences? Now what do I do to resolve this situation?



DEAL

<u>D</u> escribe	<u>E</u> xamine	<u>Articulate</u> <u>Learning</u>
 Describe the 	 Examine the 	What did I learn?
experience	experience through	 How did I learn it?
objectively.	reflection prompts by	What does it matter?
Use the five Ws:	category of learning	 What will I do in light
What?	goals:	of it?
Where?	 Personal growth 	
Who?	 Civic engagement 	
When?	 Academic 	
Why?	enhancement	

Ash & Clayton, 2009



GIBBS

Experience What happened?

Action plan

What would you do next time?

Feelings

What were you feeling?

Conclusion

What else could you have done?

Evaluation

What was good or bad about the situation?

Analysis

To make sense of the situation.

Gibbs' reflective cycle (adapted from Dye, 2011)



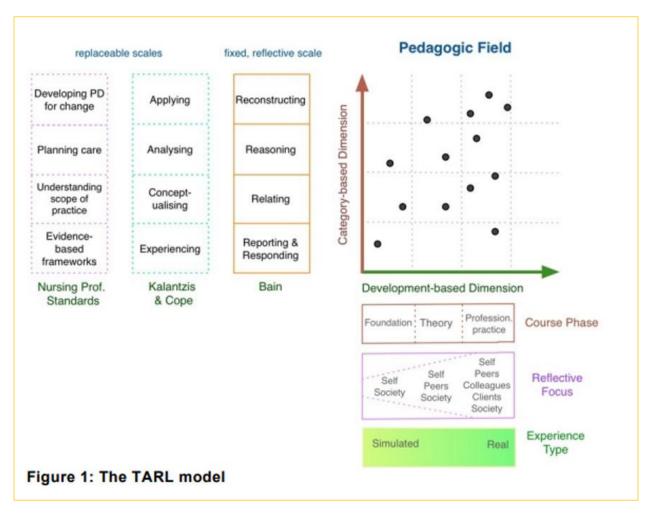
DEFAULT PEBBLEPAD TEMPLATES

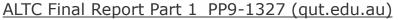
- PebblePad offers plug-and-play reflective templates:
 - What? So What? Now What?
 - Structured Reflection
 - Journal Entry
 - Star Technique

Outling a specific -it	sting where you applied porticular chills or knowledge. Describe where we was a start what we	as bannaning
Jutiine a specific situa	ation where you applied particular skills or knowledge. Describe where you were and what w	as nappening.
Task		
What needed to be do	one? What was your role in the situation? What was the desired outcome?	
Action		
	v did you deal with the situation? What skills did you use?	
	/ did you deal with the situation? What skills did you use?	
	/ did you deal with the situation? What skills did you use?	
	v did you deal with the situation? What skills did you use?	
	v did you deal with the situation? What skills did you use?	
	r did you deal with the situation? What skills did you use?	
What did you do? How	/ did you deal with the situation? What skills did you use?	
What did you do? How		
What did you do? How	v did you deal with the situation? What skills did you use? e? What impact did your actions have on the result?	



TEACHING AND ASSESSMENT FOR REFLECTIVE LEARNING (TARL)







TARL: CATEGORY-BASED DIMENSION (Y-AXIS)

Applying	Reconstructing
Analyzing	Reasoning
Conceptualizing	Relating
Experiencing	Reporting & Responding
Kalantzis & Cope	Bain 4 Rs



TARL: DEVELOPMENT-BASED DIMENSION (X-AXIS)

Year 1 / Junior Year 4 / Senior			
Foundation	Theory	Professional Practice	Program Phase
Self Society	Self Peers Society	Self Peers Colleagues Clients Society	Reflective Focus
Simulated	\rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow	Real	Experience Type



WHAT ARE SOME APPROACHES YOU CAN TAKE TO ASSESSING REFLECTION?

Where does this leave you as an instructor?

WHAT IS POSSIBLE IN THE TIME YOU HAVE?

- How much time do you have? Depends on your answer to: Where does reflection fit in?
- If reflection is not integrated at the program level, assume your course is the first and only place students will be reflecting.
- What is possible in less than 4 months? Adjust your expectations!
 - Know what you are assessing your students' reflections will be targeted and useful as will your feedback – remember: intentionality.
 - Build in multiple (three), scaffolded instances of reflection + feedback.
 - Plan to return feedback according to your students' needs and your time.
 - Use reflective frameworks.



APPROACHES TO ASSESSMENT

- Assess improvement there is a gap and a gain!
- Observe reflection in small- or large-group discussions. *community (Rodgers)
- Provide feedback via rubrics (links follow).
- Incorporate peer evaluation.
- Model how to provide feedback for students or TAs. Effective feedback
 - Clarifies expectations
 - Motivates learning
 - Opens dialogue
 - Helps develop self-assessment skills



RESOURCES

CTE Tip sheet on Critical Reflection

Rubrics

<u>Critical Reflection Rubric</u> - Kember, D., McKay, J., Sinclair, K., Kam, F., & Wong, Y. (2008). A four-category scheme for coding and assessing the level of reflection in written work. Assessment & Evaluation in Higher Education, 33(4), 369-379.

VALUE (Valid Assessment of Learning in Undergraduate Education) Rubrics - Developed by the Association of American Colleges & Universities for 16 essential learning outcomes that all students need for success in work, citizenship and life.

<u>WatCV</u> - A rubric designed to help students articulate employability skills to a potential employer.



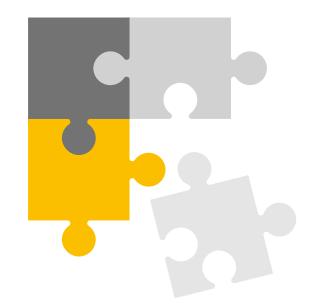
KEY TAKEAWAYS

Where does reflection fit into your and your students' plans?	 It takes time to do well. Ideally after concrete experiences and throughout a program When students are unsettled or perplexed.
What should students reflect on?	 Concrete experience / Content / Activities Process Learning outcomes Feelings / Reactions Transferrable skills
How can you get started designing reflective activities for your course?*	Ask provocative questions.Use reflective framework.
What are some approaches you can take to assessing reflection?*	 Adjust your expectations. Focus on the gain more than the gap. Choose a framework. Use rubrics.
*Stay tuned for upcoming webinars!	Reflect in community.



LET'S REVISIT FOUR CRITERIA FOR REFLECTIONS

- 1. Reflection is a meaning-making process.
- 2. Reflection is systematic, rigorous and disciplined; with roots in scientific inquiry.
- 3. Reflection needs to happen in community.
- 4. Reflection requires attitudes that value personal and intellectual growth.





REFERENCES

Ash, S. L., & Clayton, P. H. (2004). The articulated learning: An approach to guided reflection and assessment. Innovative Higher Education, 29(2), 137-154.

Ash, S. L., & Clayton, P. H. (2009). Generating, deepening, and documenting learning: The power of critical reflection in applied learning.

Bringle, R. G., & Hatcher, J. A. (1999). Reflection in service learning: Making meaning or experience. *Educational horizons*, 179.

DePaul University Teaching Commons. Assessing Reflection. Retrieved March 29, 2021 from https://resources.depaul.edu/teaching-commons/teaching-guides/feedback-grading/Pages/assessing-reflection.aspx

Dewey, J. (1910). How we think. Boston, MA: D.C. Heath and Company.

Eyler, J., Eyler, J., Giles, D. E., & Schmeide, A. (1996). *A practitioner's guide to reflection in service-learning: Student voices & reflections*. Vanderbilt University.

Felton, P. (2013). High Quality High Impact Practices. Retrieved March 29, 2021, from http://blogs.elon.edu/cel/high-quality-high-impact-practices/

Kolb, D. A. (1984). Experiential learning - Experience as the source of learning and development. Englewood Cliffs, NJ: Prentice Hall.

Rodgers, C. (2002). Defining reflection: Another look at John Dewey and reflective thinking. The Teachers College Record, 104(4), 842-866.

Ryan, M., & Ryan, M. (2013). Theorising a model for teaching and assessing reflective learning in higher education. *Higher Education Research & Development*, 32(2), 244-257.

Schön, D. (1983). The reflective practitioner: How professionals think in action. New York, NY: Basic Books.



UNIVERSITY OF WATERLOO

THANK YOU!





Our greatest impact happens together.

