Today's webinar

Common ground: The language of learning outcomes

Explores the importance of terminology and the value of creating a common language when designing and assessing learning outcomes.





Meet today's experts



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Common Ground: the language of learning outcomes

Sue Fostaty Young, PhD Centre for Teaching and Learning Queen's University

The language of learning outcomes

Learning outcomes are direct statements that define the knowledge, skills, and attitudes that students are expected to reliably demonstrate at the end of a course.

Learning focused, rather than teaching focused

Assessable in a variety of ways

Students will apply Tversky and Kahneman's theories of cognitive bias to predict human decision-making behaviours

Sharing expectations with students

Students' learning achievement can be significantly improved through improving their understanding of assessment criteria and processes.

(Rust, Price, & O'Donovan, 2003)

The anatomy of a learning outcome

A verb that specifies the quality of learning that's expected The disciplinary context A purpose for the learning

Examples of learning outcomes

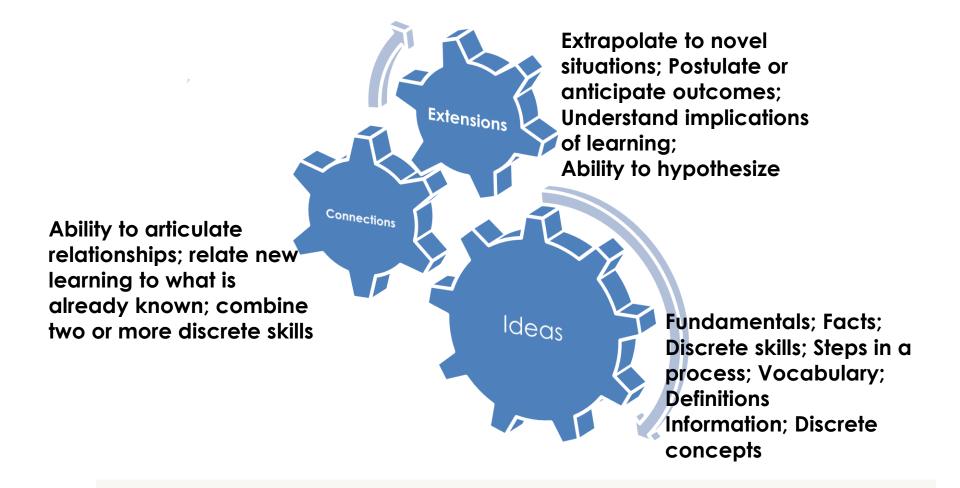
- Learners will contrast the philosophies of John Locke and Thomas Hobbes to interpret 17th Century thinking on civic governance.
- Students will manipulate dynamics, articulation and musical tempo to convey a variety of emotions.
- Learners will apply Bayesian probability to draw valid conclusions from complex data sets.
- Learners will analyze a Kastle-Meyer test to determine the presence of secondary substances

Verbs are important

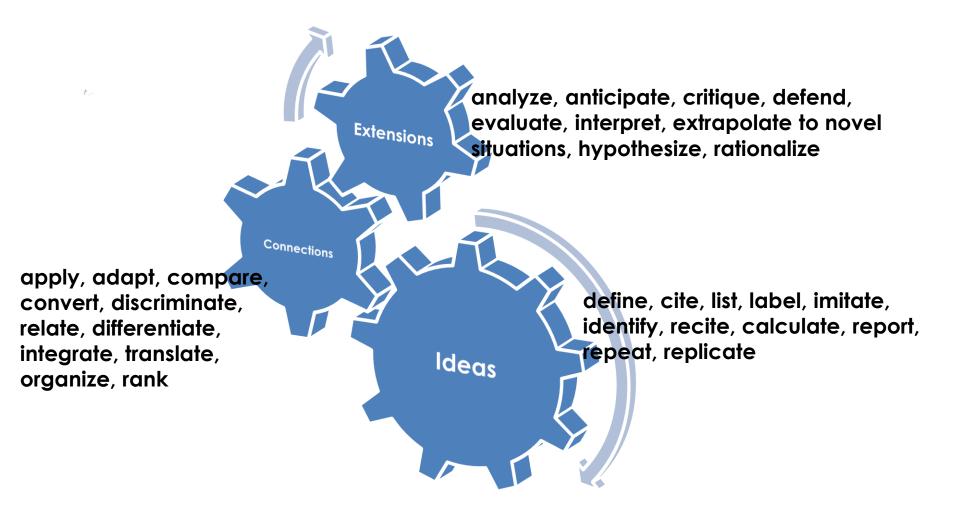
Verbs like *identify*, *define*, *imitate*, *follow*, & *list* connote memory-based learning

Verbs like evaluate, justify, critique & create connote more complex learning

ICE Wilson (1996); Fostaty Young & Wilson (2000)



ICE (Wilson, 1999; Fostaty Young & Wilson, 2000; Fostaty Young, 2005)



Benefits of using a framework to express learning outcomes

Facilitates communication by providing a common vocabulary

Provides consistency in defining learning

Helps ensure coherence among course elements, especially assessment

Provides students with a way to organize their thinking about learning; provides a way of learning how to learn

References

Fostaty Young, S. (2005). Teaching, learning and assessment in higher education: Using ICE to improve student learning. Proceedings of the Improving Student Learning Symposium, London, UK, 13, 105-115.

Fostaty Young, S. & Wilson, R. J. (2000). Assessment and Learning: the ICE approach. Winnipeg, MB: Portage and Main Press.

Rust, C., Price, M,. & O'Donovan, B. (2003). Improving students' learning by developing their understanding of assessment criteria and processes. Assessment and Evaluation in Higher Education, 28(2), 148-164.

Wilson, R.J. (1996). Assessing students in classrooms and schools. Scarborough, ON: Allyn & Bacon.

Susan McCahan

Vice Provost, Innovations in Undergraduate Education

Using common language to establish share goals



Common Language supports Shared Goals: Example – Accreditation Goals

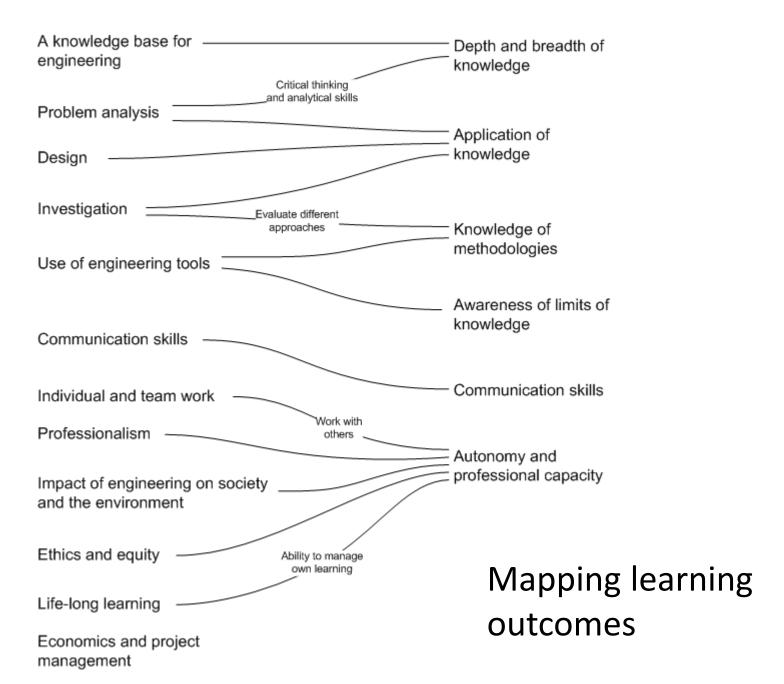


Engineering Accreditation

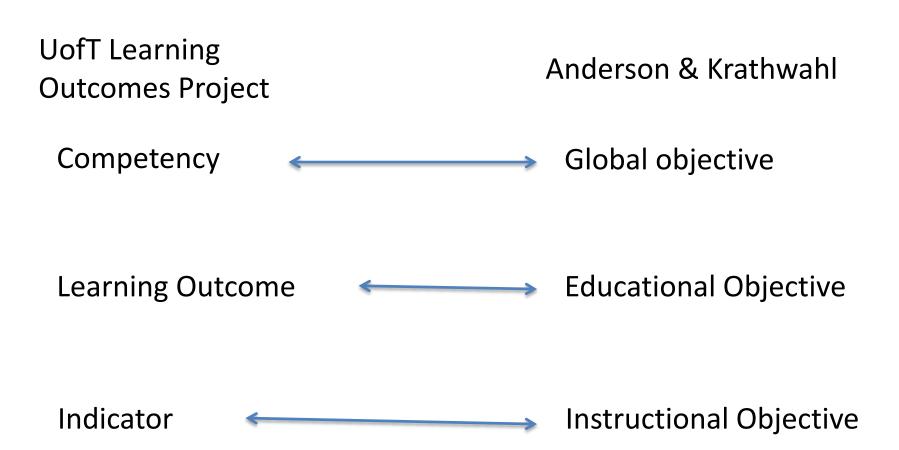
3.1: Demonstrate that graduates of a program possess 12 defined **attributes**

3.2: Continual programimprovement processes in placeusing results of graduateattribute assessment

The language used by accreditation boards is often unique and does not easily map onto the literature on learning outcomes.

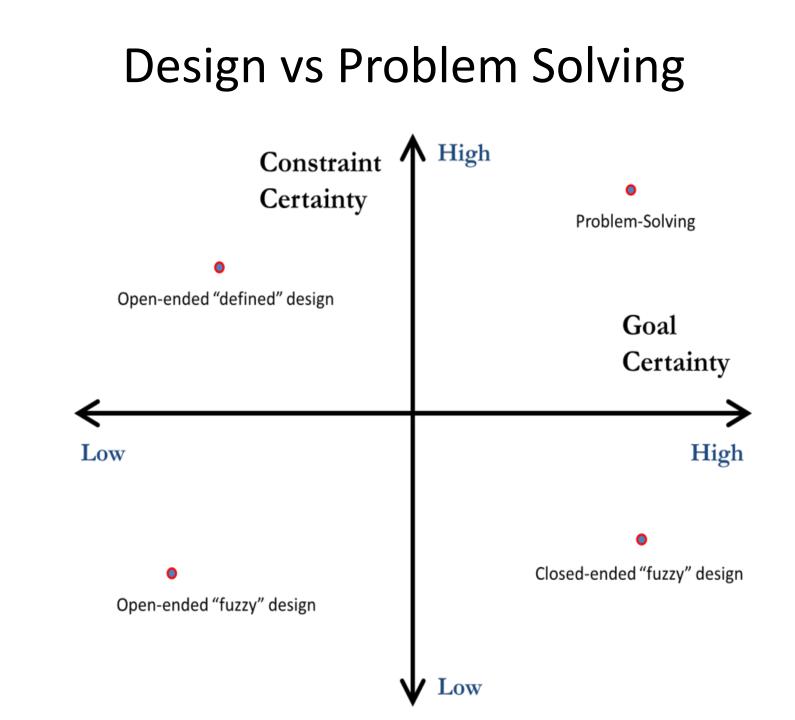


Mapping Language



Working Definitions

- <u>Competency</u>: The highest level of designation or categorization; e.g., *Problem Solving, Communication, Team Work*.
- <u>Learning Outcome</u>: The next lower level of categorization; e.g., "*Demonstrate the ability to define and characterize a problem*".
- <u>Indicator</u>: The lowest level of categorization; e.g., "Demonstrate the ability to distinguish a problem from an example". These are directly measured.

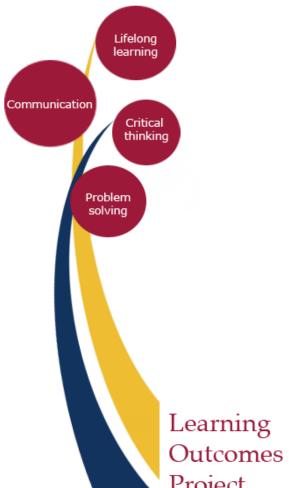


Establishing shared learning outcome goals in a program or institution:

- Allows clear conversations about program goals
- Development of shared vision
- Comparison of data across course boundaries to build information
 - For administration
 - For faculty
 - For students

UofT Learning Outcomes Project

- Building on established learning outcomes: Development of validated rubrics to measure learning outcomes in five areas:
 - Design
 - Communication
 - Teamwork
 - Problem solving
 - Investigation
- Rubrics can be used across courses to create program level information about learning.





Learning Outcomes

Common Language **Common Understanding Common Expectations**

Project

Jill Scott Vice-Provost (Teaching and Learning)

Conversations about outcomes

Skills Learning Understanding



Arguments about outcomes?

Learning outcome!

Learning objective!

Learning goals!

Developing a Common Language

Good critical

thinkers are ...

Open-minded, self-aware, and objective... they ask the right questions

Clear, accurate, and consistent... they are reflective practitioners

Defining outcomes

- Explains issue or problem
- Selects and uses information
- Adopts a specific position in arguments
- Analyzes own and others' assumptions
- Evaluates implications and consequences of conclusions



- Constructs a problem statement
- Identifies contextual approaches
- Proposes relevant solutions
- Evaluates potential solutions
- Implements solution in appropriate manner
- Evaluates solution, addresses shortcomings



- Acquires creative competencies
- Incorporates new or risky approaches
- Selects from alternatives to solve problems
- Integrates divergent
 perspectives
- Creates novel idea or product
- Transforms ideas into new forms



Outcome labels

- Issues
- Evidence
- Position
- Context and assumptions
- Conclusions



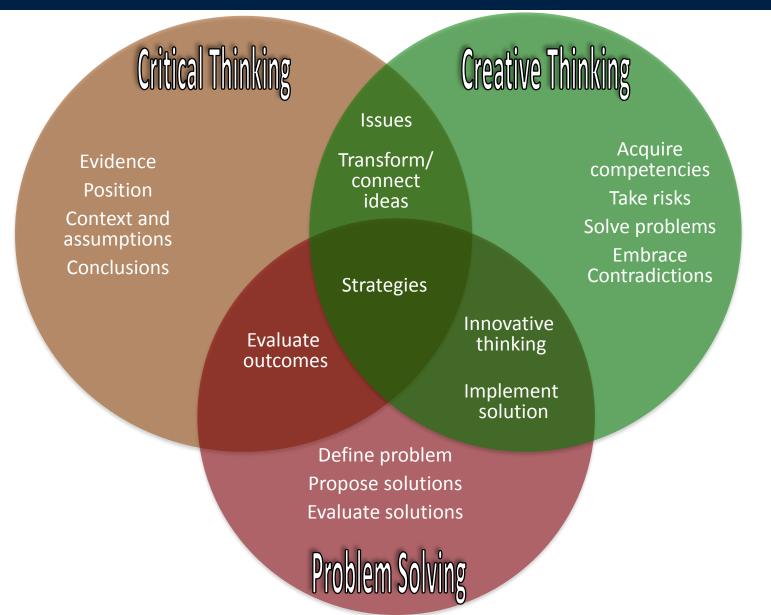
- Define problem
- Strategies
- Propose solutions
- Evaluate solutions
- Implement solution



- Acquire competencies
- Take risks
- Solve problems
- Embrace contradictions
- Innovative thinking



Defining outcomes



When things become messy!

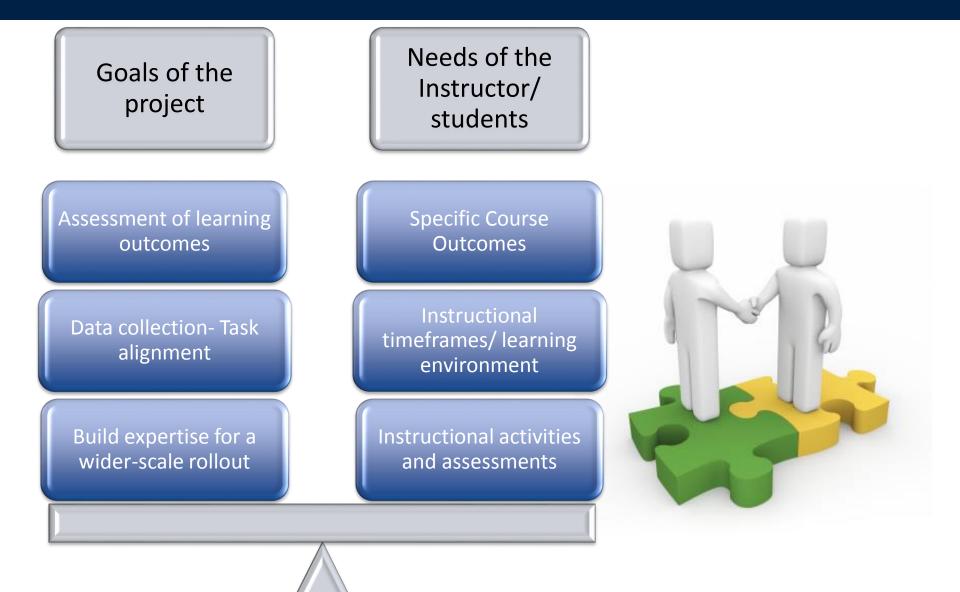
Critical Thinking?



Problem Solving?

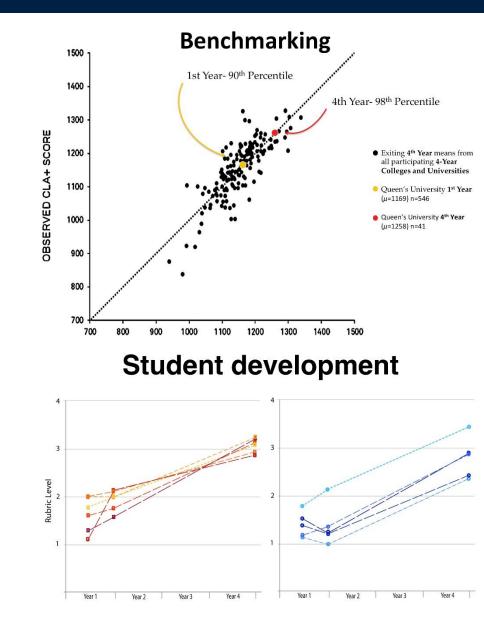
Creative Thinking?

Learning Outcomes – engaging faculty



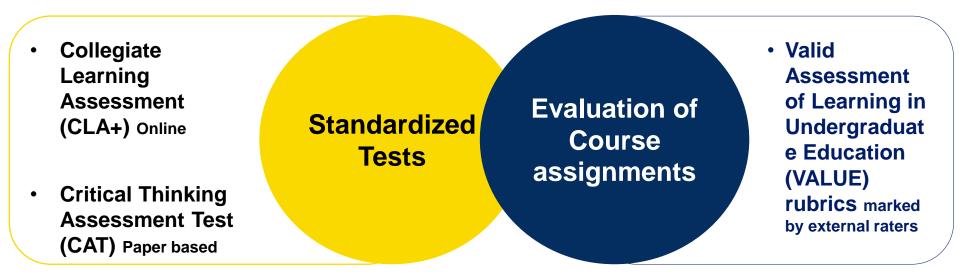
Be clear what you are trying to do

- Measure achievement of outcomes
- **Develop** transferable learning outcomes
- **Compare** different outcomes in different groups
- Align outcomes to assessments
- Test different tools



Assessment of Intellectual Skills

Critical thinking; Problem Solving; Creative Thinking; Written Communication



URL References for the tools: CLA+ <u>http://cae.org/participating-institutions/cla-overview/</u> CAT <u>https://www.tntech.edu/cat</u> VALUE rubrics <u>https://www.aacu.org/value/rubrics</u>

Success comes in many shapes and sizes



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Save the date for our next webinar!

May 2015



Webinar 3, May 28, 2015

Building a better toolkit

Armed with the learning outcomes big picture and a common language, you're ready to choose and develop the tools to assess students' achievement of learning outcomes. The third webinar will help you **set smart parameters** for your learning outcomes assessment project.



And learn more at heqco.ca

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Colleagues couldn't make it? Our webinars will be posted on our website shortly. Stay tuned!

