

Assessment in an Online/Remote Environment

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Before we begin...

1. What program do you teach in? (type answer in the chat box)
2. What LMS do you use? (Blackboard, Canvas, D2L, Other)
3. How long have you been teaching online? (first time, 1-2 years, 3-5 years, 6+ years)
4. Rate your level of assessment experience. (beginner, intermediate, advanced)

Objectives



Explain assessment and its guiding principles.

Distinguish between diagnostic, formative, and summative assessment.

Use online tools to assess student learning.

Use learning management system (LMS) features and tools to improve assessment of student learning in online courses.

Getting Started...



Ask ourselves
some questions

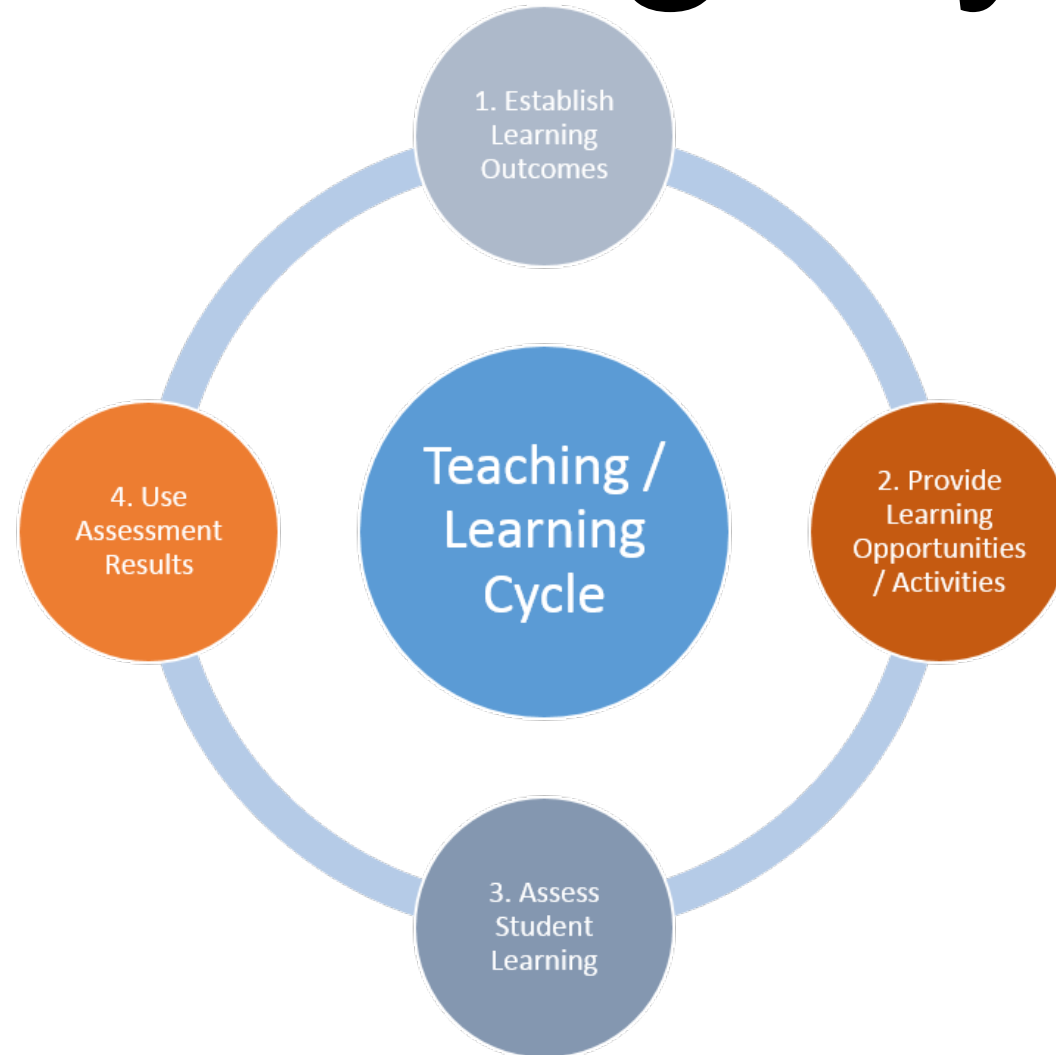
Definitions

A collage of business documents, charts, and people using devices, with the word 'ASSESSMENT' in a large white box. The background is a dark grey board with various papers, including a world map, bar charts, and a calendar. People's hands are visible holding tablets and smartphones. The word 'ASSESSMENT' is written in large, bold, dark blue letters on a white rectangular background.

ASSESSMENT

“an ongoing process aimed at understanding and improving student learning.”

Teaching Cycle



Purposes

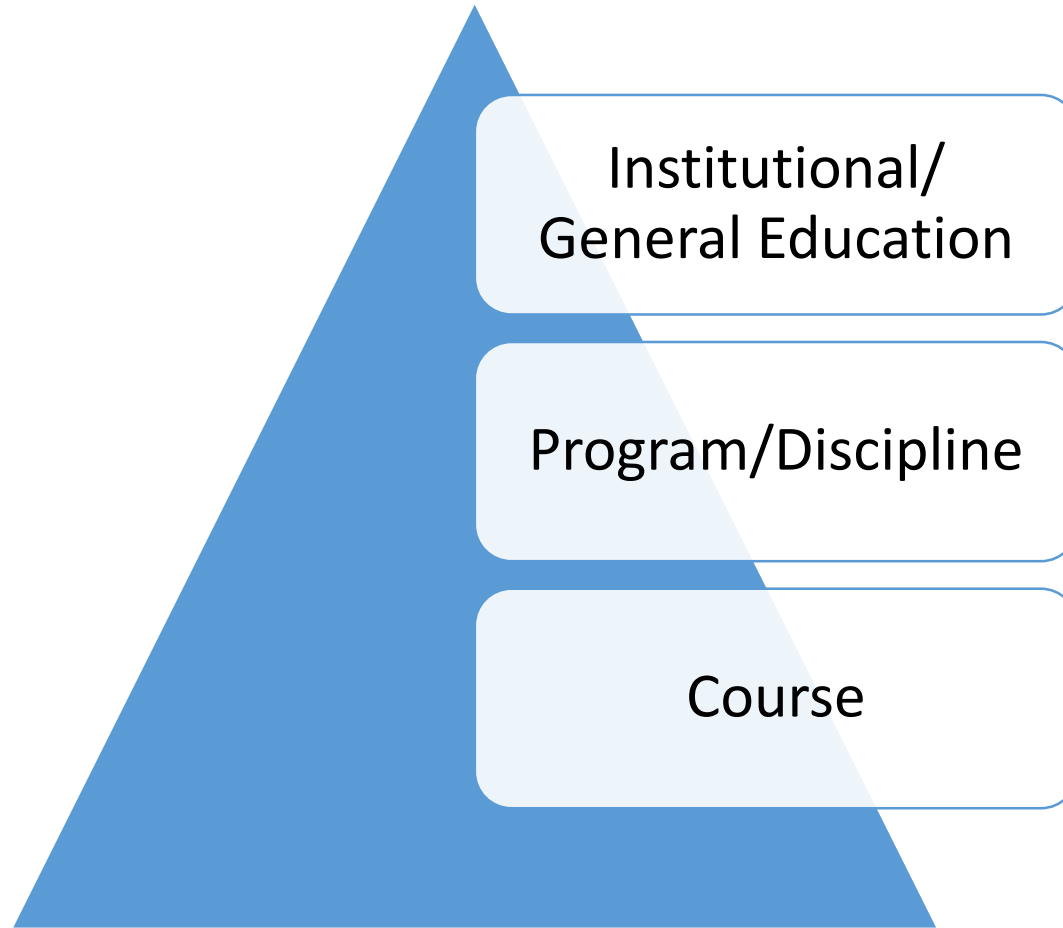
Assessing student in online
courses: Best practices



gain feedback

**ensure whether
or not learning
objectives are
met.**

Student Learning Outcomes Alignment and Mapping



Learning Management Systems (LMS) Assessment

Using Learning Objectives/Outcomes in LMS

Blackboard, Canvas and D2L Brightspace

Creating Rubrics

Creating Assignments

Aligning learning Outcomes with Assignments using Rubrics

Types of Assessment

- Where does assessment take place in the learning process?
 - Diagnostic
 - Formative
 - Summative

Note: many assessment techniques can be used for multiple types of assessment.

Please see the handouts at <https://www.iccb.org/iccb/coronavirus-updates-and-resources/helpful-resources-and-information-for-faculty-and-staff/> for more examples than those we are able to share today.

Types of Assessment

- **Diagnostic Assessments** (AKA “Baseline Assessments”)
 - Measure students’ knowledge, skills, and abilities before instruction (or additional instruction) takes place
 - Help you, the instructor, determine
 - the most effective starting point for a lesson or course
 - the appropriate level at which to begin instruction
 - Examples: Background Knowledge Checks, Misconception/Preconception Checks, Ice Breakers

Diagnostic Assessment Examples

Background Knowledge Checks

Time commitment	Before	Medium
	During	Low
	After	Medium
Benefits	<ul style="list-style-type: none">• Provide information about students' background knowledge and potentially their communication skills• Allow students to think about the upcoming coursework before instruction begins	
Drawbacks	<ul style="list-style-type: none">• Responding may be difficult for students who are underprepared	
Online/ Virtual	<ul style="list-style-type: none">• Raise hands in Collaborate or Zoom, quizzes, Kahoot, discussion boards	

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Diagnostic Assessment Examples

Misconception/Preconception Checks		
Time commitment	Before	Medium
	During	Low
	After	Medium
Benefits	<ul style="list-style-type: none"> • Provide information about students' background knowledge and perceptions about the course or topic: "The greatest obstacle to new learning often is not the student's lack of prior knowledge but, rather, the existence of prior knowledge." (Angelo & Cross, 1993.) • Allow students to think about how their views relate to the upcoming coursework • Allow instructors to develop methods for overcoming barriers to learning 	
Drawbacks	<ul style="list-style-type: none"> • Students may not respond well to having their "certainties" questioned • Fundamental attitudes and beliefs are difficult to change (and may not be the instructor's responsibility or right to attempt to change) 	
Online/ Virtual	<ul style="list-style-type: none"> • Kahoot, LMS quizzes or surveys • Zoom or LMS quizzes or hand raises 	

Diagnostic Assessment—Your Turn

We will split you into breakout rooms to discuss with ideas with your colleagues.

- Identify a diagnostic assessment activity to use in the online/remote environment in fall semester.
- What can you use in your LMS?

Types of Assessment

- **Formative Assessments**

- Measure what students are learning in the midst of the teaching and learning process
- Provide feedback that you can use to guide improvements during the semester or unit, or within a specific class period
- Examples: Minute Paper, Muddiest Point, Memory Matrix, Journal

Formative Assessment Examples

Graphic Organizers

Time commitment	Before	Medium
	During	Low-High
	After	Medium
Benefits	<ul style="list-style-type: none"> Provide information about background knowledge Allow students to think about the upcoming coursework before instruction begins Allow students to visually connect course content 	
Drawbacks	<ul style="list-style-type: none"> Certain graphic organizers may cause difficulties for students who are not visual learners or are visually impaired 	
Online/ Virtual	<ul style="list-style-type: none"> Online possibilities: https://www.techlearning.com/tl-advisor-blog/9736 Don't introduce a new software if you're only going to use it once 	

NAME _____ CLASS _____ DATE _____

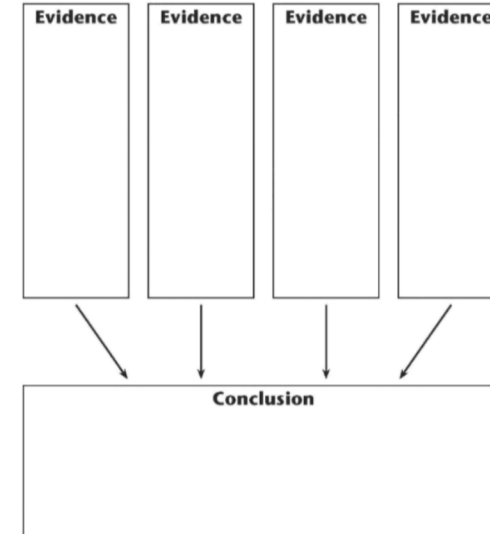
 Graphic Organizer
 Rank Order Chart

Topic: _____

Rank	Item	Explanation
1		
2		
3		

NAME _____ CLASS _____ DATE _____

 Graphic Organizer
 Conclusions Chart



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(Information varies based on specific organizer used.)

Organizer examples from <https://my.hrw.com/nsmedia/intgos/html/igo.htm>.

Formative Assessment Examples

Memory Matrix		
Time commitment	Before	Low-Medium
	During	Low-Medium
	After	Medium
Benefits	<ul style="list-style-type: none"> • Use the results to gauge comprehension of vital course concepts • Can be used repeatedly throughout the semester 	
Drawbacks	<ul style="list-style-type: none"> • More time-consuming for more complex concepts 	
Online/ Virtual	<ul style="list-style-type: none"> • Graphic organizers or Word/Google docs • Whiteboard 	

	Unit of Analysis	Demand depends on	Supply depends on
Macroeconomics			
Microeconomics			

Formative Assessment—Your Turn

We will split you into breakout rooms to discuss with ideas with your colleagues.

- Identify a formative assessment activity to use in the online/remote environment in fall semester.
- What can you use in your LMS?

Types of Assessment

- **Summative Assessments**

- Measure what students have learned from a unit, course, or program
- Conducted at the end of a course or program, or after completing a specific section of a course (as classroom assessment)
- Examples: Exams, term papers, portfolios, performance tasks

Summative Assessment Examples

Performance Tasks		
Time commitment	Before	Medium
	During	Low-High
	After	Medium
Benefits	<ul style="list-style-type: none">• Provide information about students' background skills in relation to the course	
Drawbacks	<ul style="list-style-type: none">• Student confidence can be undermined for those who do not have the previous knowledge, skills, or abilities required to complete the assessment	
Online/ Virtual	<ul style="list-style-type: none">• Students can submit videos or video links to show you how well they can complete a hands-on task	



Summative Assessment Examples

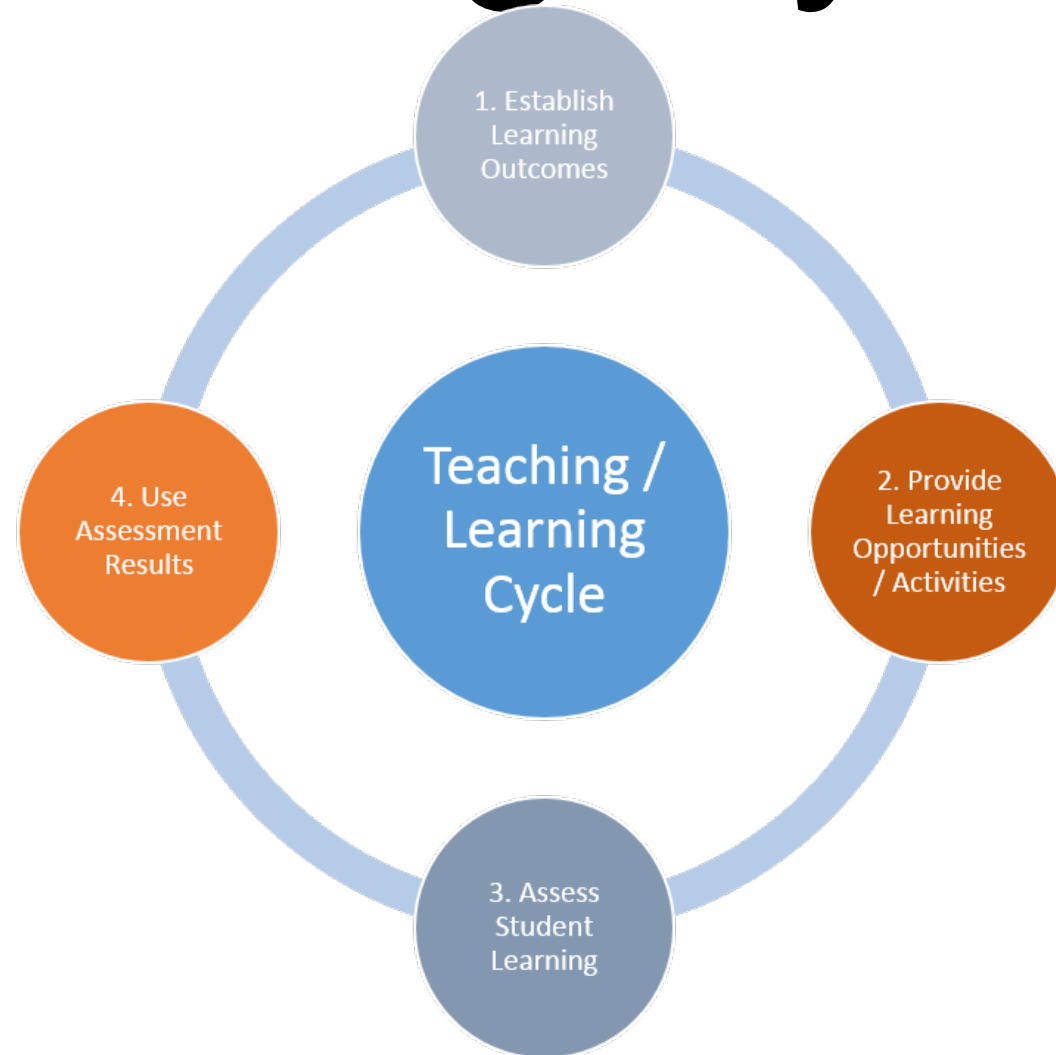
Portfolios		
Time commitment	Before	High
	During	Medium
	After	Medium
Benefits	<ul style="list-style-type: none">• Students collect examples of their work that they are already completing for their course• Portfolios can be helpful for students' metacognition as well as their applications to future jobs/education	
Drawbacks	<ul style="list-style-type: none">• Need to determine appropriate technology for the portfolios—you may want to use something outside the LMS	
Online/ Virtual	<ul style="list-style-type: none">• Online portfolios are becoming very popular. Check with your LMS support to see what options you have, or use Google docs for an easy/free solution	

Summative Assessment—Your Turn

We will split you into breakout rooms to discuss with ideas with your colleagues.

- Identify a summative assessment activity to use in the online/remote environment in fall semester.
- What can you use in your LMS?

Teaching Cycle



Assessment in an Online/Remote Environment

Resources

Angelo, T. A., Cross, K.P. (1993). Classroom Assessment Techniques(2nd ed.). San Francisco, CA: Jossey-Bass Publishers.

Bain, K. (2004). What the Best College Teachers Do. Cambridge, MA: Harvard University Press.

Garrison, D. R. (2011). E-Learning in the 21st Century: A framework for research and practice. (2nd ed.). New York, NY: Routledge.

Guillaume, A. M. (2000). Classroom Teaching: A Primer for New Professionals. Upper Saddle River, NJ: Pearson.

Suskie, L. (2006). Assessing Student Learning: A common sense guide (2nd ed.). San Francisco, CA: John Wiley & Sons.

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Thank you!

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