

## **Checks for Learning During Instruction**

Checks for Learning during the instructional process give you feedback on student learning while the teaching/learning is taking place. There are multiple ways to check on learning. What you choose to use to check for learning depends on what you are assessing. The material below presents these activities, what kind of knowledge you are assessing, how they are done, and how they can be used. Most can be adapted for online use.

What Am I Assessing?	What Is It?	How Is It Done?	How Do We Use the Results?
What Am I Assessing?  Course Knowledge and/or Skills	One-Minute Paper Or Muddiest Point: An assessment where learners are asked quick but deep questions on the material. These methods can be used in online, hybrid, or face-to-face classes.  Online, have students post to a discussion board.  In a synchronous (live) online class, students can write on a white-board.  Use a shared (open for anonymous responses) google document to collect	For the Minute Paper, ask students to write response to one or two questions during the last few minutes of class and collect the responses. This can be done on paper, index cards, or by online survey. Possible questions are:  "Most important thing I learned today?  "What I understood least?"  Muddiest Point is similar to Minute Paper but asks students to describe what they didn't understand and what they think might help. It can be done on paper or by online survey. In large classes, you can break students into small groups and ask each group to create a card	Review responses before next class meeting to understand what students learned and use to clarify, correct, or elaborate in the next class. Refer to this information at beginning of next class or refer to as you teach.
	responses.  LMS Quizzes: Conducted after readings, videos, and other external work to provide information on how students understood key concepts or points.	Create a series of multiple-choice questions using <a href="Canvas">Canvas</a> . Use software to calculate results and use results to open course activities. Share results and impact on course design with students.	Analyze results using software and build into course activities.





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Application and Performance	One-Sentence Summary: An assessment used to make student understandings visible by summarizing key points or areas.	<ul> <li>Sequence and ends</li> <li>Compare, that both</li> <li>Cause/Eff</li> </ul>	e asking study. Have studer a portion of the atemplate ents to constargeted maters. Sentence Sum: A is a : begins with //Contrast:, but ect:, care	ents to write to ents write a or or of a lesson, led e based on your ct a single se erial/their und	chem ne-sentence cture, or ur targeted entence that derstandings. and stems hat es with e similar in	Evaluate the quality of each summary quickly and holistically. Note whether students identified the essential components of the idea and the interrelationships. Adjust course activities in response to results.
Analysis and Evaluation	Memory Matrix: An assessment that asks students to create a structure for organizing learning around key concepts	Prepare a me or reading that classify key cothe matrix to key concepts.	at requires st oncepts and i demonstrate	udents to recainformation. Set their ability t	all and/or tudents fill in	Add up correct and incorrect responses in each cell. Analyze differences and look for patterns among the incorrect responses. Decide what might be the cause and address as you continue teaching.
		Mouth				
		Esophagus				
		Stomach				
		Small				
		Intestine				
		Etc.				



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Poll to Understand Misconceptions: A check for learning that explores and makes student misconceptions visible so they can be clarified	Ask a question with answer choices that students with a particular common misconception are likely to select, along with the correct answer. Students can hold up responses on colored cards with selection (a,b,c,d) in small classes or use I Clickers in larger ones. Discuss why the incorrect choice was chosen and therefore dispel the misconception.	Tally results to determine where students' knowledge and skills are and do some in-the-moment teaching. You can also reinforce the correct answer to this concept in your lecture.
Directed Paraphrasing: A check for learning that requires students to restate what they have learned or think is important	In directed paraphrasing, you ask students to write a layman's "translation" of something they have just learned. Directed paraphrasing should be geared to a specified individual or audience to assess their ability to comprehend and transfer concepts.  Be sure you explain the intended audience is, the purpose, and any limits on speaking time, number of words, or sentences.  An option is to have the paraphrases delivered orally, recorded on video, and submitted on your LMS.	Categorize student responses according to characteristics you feel are important. Analyze the responses both within and across categories, noting ways you could address student needs.  Share results next day with the students how many responses were "on target" and read a few examples.  If only a third of your students provided "on target" responses, consider spending extra time either reviewing or having them apply the concept.
Pro and Con Grid: A check for learning that makes student thinking visible by requires students to analyze content in terms of pros and cons, costs and benefits, advantages and disadvantages	Complete a <u>pro-con grid</u> based on your outcomes. Ask students to create a grid of the pros and cons for a given decision/problem presented in class.	List the points that students have listed as pros and cons and do a frequency count to determine which points are most often mentioned, which key points are omitted, and whether there is a balance between the two "sides" of the grid. Report back to class and use in next discussion.  Use this technique in any course where questions of value are a focus of course outcomes.





Attitudes, Motivation,	Documented Problems: A check for learning that requires students to show both their work and their reasoning behind the work  Journals:	Choose 1-3 problems and ask students to write down all of the steps they take in solving them with an explanation of each step.  Ask students to keep journals that detail their	Identify where patterns of difficulty occur, conceptual difficulties, or lingering misconceptions. Also, this technique can give students direct feedback that lets them clarify their thinking and assess how well they understand an approach or problem. This uncovers conceptual difficulties, lingering misconceptions, and issues in problem solving strategies.  Have students turn in the journals several times
Values, Self-Awareness as Learner	A check for learning that provides instructors and students a running record of their thinking or progress	thoughts about the class. May ask them to be specific, recording only attitudes, values, or self-awareness.	during the semester so you (and the students) can see how/what they are learning and chart development.
	Course specific self- confidence surveys: A check for learning that allows students to assess their needs and their progress in learning	Students indicate in a survey form how confident they feel about their grasp of each of a list of concepts that have been addressed or how confident they feel about their ability to learn upcoming concepts. Can use a 5-point scale anchored at the ends by "Very confident" and "Not at all confident."	Review results and identify areas that may need to readdress or give more attention.

