

Use Online Quizzes With Automated Feedback

One of the key features of online quizzes, and those that can be built through most LMSs, is the ability to provide immediate feedback and redirect student thought processes. Online quizzes are a resource for instructors to ensure that students understand more factual knowledge and basic application of knowledge in real time. The online quiz functionality generally allows instructors to craft possible wrong answer choices and to embed unique automated feedback that explains why that particular answer choice is incorrect, while also directing students to helpful resources.

Creating Quizzes That Support Student Learning

To create quizzes that help your students gain insight into their current level of understanding, begin by writing questions that focus on the core learning outcomes for your course. It can be difficult and time consuming to write specific questions, answer choices, and feedback. To simplify the process, consider using other resources. For instance, if you are assigning a textbook from a publisher, the license may come with test banks and test-generating software that you might use. Additionally, most textbooks have guiding questions or reflection points that may help you develop questions. After choosing or creating a question and set of responses, develop feedback to be provided to the student for each of the responses. If a response is incorrect, provide an explanation as to why. If the response is correct, be sure to build in a response that recognizes why it is correct.

Sample Quiz Questions With Feedback

The table below includes sample online questions for multiple choice, fill-in-the-blank, and multiple response. Each question type also has sample incorrect answer choices, unique feedback, and correct answer feedback.

Question type	Question stem and answer choices	Incorrect answer feedback	Correct answer feedback
Multiple choice	The area of which shape is calculated by the formula below? $1/2 (a + b) \times h$ A. square B. rectangle C. triangle D. trapezoid	<ul style="list-style-type: none"> The area of a square is the square of one of its sides: $area = a^2$. The area of a rectangle is the length times the width: $area = lw$. The area of a triangle is half the base times the height: $area = 1/2 b \times h$. 	Correct! Great work remembering the correct calculation of the area of a trapezoid.
Fill-in-the-blank	The _____ is when the temperature and pressure of a pure substance allows for its three phases of vapor, liquid, and solid to coexist in equilibrium. Correct answer: triple point	Generic incorrect answer feedback: At a single pressure and a single temperature, a pure substance can reach a point of triple existence: vapor, liquid, and solid. What is the term that describes this point?	Correct! Great work—according to triple point, water can freeze and boil at the same time!

Multiple response	Which of the following are examples of igneous rocks? Select all that apply. A. granite B. slate C. marble D. basalt E. sandstone F. pegmatite	B. Slate is an example of a metamorphic rock. C. Marble is an example of a metamorphic rock. E. Sandstone is an example of sedimentary rock.	Great work identifying the igneous rocks! A. granite D. basalt F. pegmatite
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Creating these quizzes with incorrect answer choices and unique automated feedback can be time consuming, but it is worth the investment because the quiz becomes a high-quality learning opportunity and can be used again in future classes. You may revise individual questions with each course as you gain a better understanding of what students need and what types of responses seem to help the most.