

## Teaching Methods Found to Be Effective for Helping Students Achieve Different Learning Outcomes

Use this chart, developed by Linda Nilson (2010), to identify the teaching methods best aligned to the cognitive levels of your learning outcomes.

Outcome Method	Remember	Understand	Apply	Analyze	Evaluate	Create
Lecture	X					
Interactive lecture	X	X	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>
Recitation	X	X				
Directed discussion		X	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>
Writing/speaking exercises		X	X	X	X	X
Classroom assessment techniques		X	X	X	X	
Group work or learning		X	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>
Student-peer feedback		X		X	X	
Cookbook science labs		X	X			
Just-in-time teaching	X	X				
Case method			X	X	X	X
Inquiry based or inquiry guided	X <sup>b</sup>	X	X	X	X	X
Problem-based learning	X <sup>b</sup>		X	X	X	X
Project-based learning	X <sup>b</sup>	X	X	X	X	X
Role plays and simulations		X	X	X	X	
Service learning with reflection			X	X	X	X
Fieldwork/clinical	X		X	X	X	X

**Note:** An X indicates this method can help students achieve this learning outcome if the method is properly implemented to serve this outcome. Poor implementation or implementation for other ends may mitigate against students' achieving the outcome.

<sup>a</sup> Depends on the lecture-break tasks, the discussion questions, or the group tasks assigned.

<sup>b</sup> The knowledge acquired may be narrowly focused on the problem or project.