

Overview of Scientific Teaching

iBiology Scientific Teaching <https://www.ibiology.org/scientific-teaching/active-learning.html>

Scientific Teaching <http://science.sciencemag.org/content/304/5670/521>

Taxonomy of scientific teaching:
<http://www.lifescied.org/content/14/1/ar9.full>

Effective undergraduate instruction:
<https://www.nap.edu/catalog/18687/reaching-students-what-research-says-about-effective-instruction-in-undergraduate>

Teaching Guides

Approaches to Biology Teaching and Learning:
[http://www.lifescied.org/cgi/collection/approaches to biology teaching and learning](http://www.lifescied.org/cgi/collection/approaches%20to%20biology%20teaching%20and%20learning)

Blooming Biology Tool: *CBE Life Sci Educ* vol 7 no 4 368-381
<http://www.lifescied.org/content/7/4/368.full>

UT Austin's TIDES Teaching Resources Portal: <https://cns.utexas.edu/teaching-portal>

Vanderbilt's Center for Teaching and Learning Guides:
<https://cft.vanderbilt.edu/teaching-guides/>

Teaching Resources

Case Study Teaching <http://sciencecases.lib.buffalo.edu/cs/>

Course-Based Undergraduate Research Experiences (CUREs)
<http://curenet.cns.utexas.edu/>

CourseSource <http://www.coursesource.org>

MedEdPortal <https://www.mededportal.org/>

Problem-Based Learning <http://www1.udel.edu/inst/why-pbl.html>

Teaching Strategies to Promote Engagement
<http://www.lifescied.org/content/12/3/322.full>

Assessment

Assays to Assessments: <http://www.lifescied.org/content/3/2/69.full>

Authentic Assessment Toolbox / Rubric Design:
<http://jfmuller.faculty.noctrl.edu/toolbox/>

Classroom Observation Protocol for Undergraduate STEM (COPUS):
<http://www.lifescied.org/content/13/4/624.full>

Interactive, Constructive, Active, and Passive (ICAP) Framework:
<http://www.tandfonline.com/doi/abs/10.1080/00461520.2014.965823?journalCode=hedp20>

Laboratory Course Assessment Survey: *CBE Life Sci Educ.* 2015
Winter;14(4):ar37 <http://www.lifescied.org/content/14/4/ar37.full>

Project Ownership Survey: <http://www.lifescied.org/content/13/1/149.full>

Persistence in the Sciences (PITS) Assessment Survey:
<http://www.lifescied.org/content/15/4/ar54.full>

Revealing How Students Think: <http://www.lifescied.org/content/9/1/1.full>

Teaching More by Grading Less or Differently:
<http://www.lifescied.org/content/13/2/159.full>