



VA Boston Healthcare System Linking Education Across Residency-training Networks Growing as an Educator Curriculum

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The resources below are meant to provide a broad overview of educational theory and principles, ways to integrate these principles into your teaching, and strategies for personal and professional development.

These activities are meant to be used in conjunction with coaching sessions, which will allow for the development of additional learning activities that are tailored to specific learning needs and goals.

Topic	Learning Activities
Introduction and Needs Assessment	SurveyMonkey needs assessment survey; Meeting with Dr. Topor
Theory and Course development:	Article: Dunlosky J, Rawson KA, Marsh EJ, Nathan MJ, Willingham DT. Improving Students' Learning With Effective Learning Techniques: Promising Directions From Cognitive and Educational Psychology. <i>Psychological Science in the Public Interest</i> . 2013;14(1):4-58.
Adult learning theory	https://www.youtube.com/watch?v=3LdEwYDDJBg Animated video on how adults learn. (3 minutes) http://www.cornell.edu/video/robert-duke-why-students-dont-learn-what-we-think-we-teach Video on how to use learning theory to design learning experiences. (1 hour, 19 minutes)

Cognitive science of teaching and learning	https://www.youtube.com/watch?v=zay8yoO5VIs Video on the basics of the cognitive science of teaching and learning and how to use this science to improve education. (1 hour, 10 minutes)
Curriculum design	https://www.youtube.com/watch?v=FKib8nIM16g Video on curriculum development and discussion on implementation of a new training curriculum. (20 minutes)
Learning goals and objectives	https://www.youtube.com/watch?v=4DgkLV9h69Q Video on how to use Bloom's taxonomy to write learning objectives. (10 minutes) https://www.cmu.edu/teaching/designteach/design/learningobjectives.html Website provides valuable information on writing learning goals.
Teaching Strategies:	Articles: Ludmerer KM. Four Fundamental Educational Principles. <i>Journal of Graduate Medical Education</i> . 2017;9(1):14-17. Papp KK, Huang GC, Lauzon Clabo LM, et al. Milestones of critical thinking: a developmental model for medicine and nursing. <i>Academic medicine : journal of the Association of American Medical Colleges</i> . May 2014;89(5):715-720. Shoulders B, Follett C, Eason J. Enhancing critical thinking in clinical practice: implications for critical and acute care nurses. <i>Dimensions of critical care nursing : DCCN</i> . Jul-Aug 2014;33(4):207-214.
Active learning	https://www.youtube.com/watch?v=wjuWWj5VbtE Video on strategies to increase learner engagement when teaching. (1 hour) https://ablconnect.harvard.edu/pages/activity-definitions Website provides examples of active learning activities.
Flipped classroom	https://www.youtube.com/watch?v=w6Ifuc9IAH8 Video on how to use a flipped teaching approach in case-based learning. (5 minutes)
Problem-based learning	https://www.youtube.com/watch?v=s3o5wZS15Hg Video demonstrating problem-based learning. (11 minutes) https://www.youtube.com/watch?v=cMtLXXf9Sko

	Video demonstrating steps involved in problem-based learning. (4 minutes)
Teaching critical thinking	<p>https://www.youtube.com/watch?v=9cf79eBXq20 Video discussing approaches to teaching clinical reasoning skills. (57 minutes)</p> <p>https://www.youtube.com/watch?v=UO4nj_3dpTg Video discussing strategies to help learners develop critical thinking. (1 hour, 5 minutes)</p>
Using technology to teach	<p>https://www.youtube.com/watch?v=Yn7z1Lm9r14 Video describing ways technology can be used to engage learners before, during, and after a teaching session. (55 minutes)</p>
Teaching learners from different generations	<p>https://www.youtube.com/watch?v=9f7xdOwM_34 Video describing characteristics of different generations of learners and strategies to engage with each generation. (1 hour)</p>
Assessment and Feedback:	<p>Bing-You R, Hayes V, Varaklis K, Trowbridge R, Kemp H, McKelvy D. Feedback for Learners in Medical Education: What Is Known? A Scoping Review. <i>Academic medicine</i>. 2017; 92(9): 1346-1354.</p> <p>Konopasek L, Norcini J, Krupat E. Focusing on the Formative: Building an Assessment System Aimed at Student Growth and Development. <i>Academic medicine</i>. 2016;91(11):1492-1497.</p> <p>Lockyer J, Carraccio C, Chan M, Hart D, Smee S, Touchie C, Holmboe ES, Frank JR, & on behalf of the ICBME Collaborators. Core principles of assessment in competency-based medical education. <i>Medical teacher</i>. 2017; 39(6): 609-616.</p> <p>Norcini JJ, McKinley DW. Assessment methods in medical education. <i>Teaching and teacher education</i>. 2007;23(3):239-250.</p> <p>Ramani S, Krackov SK. Twelve tips for giving feedback effectively in the clinical environment. <i>Medical teacher</i>. 2012;34(10):787-791.</p>
Assessment	<p>https://www.youtube.com/watch?v=P-7aMxoI8Mo Video providing an overview of assessment and evaluation in health professions education. (50 minutes)</p>

	<p>https://www.youtube.com/watch?v=9LLY-Fd6bNM Video re-enactments of standardized patient exams. (16 minutes)</p> <p>https://www.youtube.com/watch?v=MX4YJeUL_14 Video describing how assessment is linked to increased quality of clinical care. (1 hour, 14 minutes)</p>
Giving feedback	<p>https://www.youtube.com/watch?v=g1SxgOIoXh4 Video on effective strategies to provide feedback to learners. (59 minutes)</p>
Personal Development	<p>Bickel J. Not Too Late to Reinvigorate: How Midcareer Faculty Can Continue Growing. <i>Academic medicine</i>. 2016; 91(12): 1601-1605.</p> <p>Busireddy KR, Miller JA, Ellison K, Ren V, Qayyum R, Panda M. Efficacy of Interventions to Reduce Resident Physician Burnout: A Systematic Review. <i>Journal of Graduate Medical Education</i>. 2017;9(3):294-301.</p> <p>Tijdink JK, Vergouwen AC, Smulders YM. Emotional exhaustion and burnout among medical professors; a nationwide survey. <i>BMC medical education</i>. 2014;14:183.</p>
Reducing burnout	<p>https://www.youtube.com/watch?v=Ev4xBNVJ6hY Video on strategies to reduce educator burnout. (49 minutes)</p> <p>https://www.vabostoneducation.org/projects Website with resources promoting faculty and learner wellness.</p>
Achieving personal and professional goals	<p>https://www.youtube.com/watch?v=GY3KyqYOrPM Video with tips on helping faculty members achieve both personal and professional goals. (55 minutes)</p>
Work-life balance	<p>https://www.youtube.com/watch?v=LhRY2tUmuoo Video describing techniques to manage the work/life balance for busy educators. (59 minutes)</p>
Educational portfolios	<p>https://www.youtube.com/watch?v=FZSAyg20meI Video with strategies for faculty to develop educational portfolios. (59 minutes)</p>