

Paving the Way: Cognitive Development and Scaffolding Strategies for Undergraduates in
Library Instruction Classes

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Presentation overview

Transitioning from high school to college is a tricky process socially, emotionally, and mentally. Understanding cognitive development can help educators make informed decisions about effective classroom content for first-year students. By knowing where first-year students are in terms of their approaches to learning, library educators and faculty partners can use a scaffolding approach to help students develop the higher level skills they need in college.

Concept Areas

Cognitive development theories

What it is - As proposed by William Perry, the idea that students pass through stages of development in their learning

Cognitive development stage for first-years - Perry argues that many first-year students are in a “dualistic” development phase where they have a more-or-less black and white worldview, want “right” answers to questions, and trust in authority

Readings

Jackson, R. (2007). “Cognitive Development: The Missing Link in Teaching Information Literacy Skills.” *Reference and User Services Quarterly*, 46(4), 28-32.

Perry, William G. (1999). *Forms of Intellectual and Ethical Development in the College Years: A Scheme*. San Francisco: Jossey-Bass.

Mellon, Constance (1986), "Library anxiety: A grounded theory and its development", *College & Research Libraries* 47 (2): 160–165

Information Literacy

A working definition from ACRL - Information literacy is a repertoire of understandings, practices, and dispositions focused on flexible engagement with the information ecosystem, underpinned by critical self-reflection.

Links and Resources

ACRL Information Literacy Competency Standards for Higher Education -

<http://www.ala.org/acrl/standards/informationliteracycompetency>

Project Information Literacy. University of Washington Information School.

<http://projectinfolit.org/publications>

Threshold Concepts

Definition- Threshold concepts are core concepts that stick with a student once they are learned. Threshold concepts are often difficult or troublesome concepts and skills that can cause students to hit roadblocks in their learning.

Resources

Townsend, L, Brunetti, K., and Hofer, A.R. (2011). "Threshold Concepts and Information Literacy." *portal: Libraries and the Academy*, 11(3), 853-69.

Threshold Concepts and Information Literacy Website - <http://www.ilthresholdconcepts.com/>

Scaffolding

What it is - Instructional scaffolding is a learning process that focuses on providing support and guidance to students as they learn and master new tasks. Support is gradually lessened as students develop autonomous skills. Scaffolding starts from a familiar, and developmentally appropriate, place for students and new concepts and skills are built up and introduced over time.

Resources

UNC School of Education Overview of Scaffolding - <http://www.learnnc.org/lp/pages/5074>

Emerging Perspectives on Learning, Teaching, and Technology, Department of Educational Psychology and Instructional Technology at the University of Georgia -

http://epltt.coe.uga.edu/index.php?title=Main_Page

Integrated Course Design

What it is - This is a variation on backwards design, which is an instructional design process that begin with learning outcomes and works back from there toward the development of classroom activities. Integrated course design is a similar process, but this design system also places an emphasis on the importance contextual factors, such as pre-existing coursework or class size that can influence curriculum decisions.

Resources

Wiggins, G. & McTighe, J.(2005). *Understanding by Design* (Expanded 2nd Ed. USA).

Alexandria, Va.:Association for Supervision and Curriculum Development.

Vanderbilt Center for Teaching overview of Understanding by Design -

<http://cft.vanderbilt.edu/guides-sub-pages/understanding-by-design/>

Booth, C. (2011). *Reflective teaching, effective learning: Instructional literacy for library educators*. Chicago: American Library Association.

Sample lesson planning process from Loyola University Chicago

Gather data about student population from campus partners who work with first-years

Consider what students should be able to do and know, and develop learning outcomes

Consider what students might already know and figure out good starting places for lessons

Determine what success will look like and how to assess student progress

Develop lessons and activities to help students achieve these outcomes