

Quantitative Reasoning Course Assessment Resources

From Carleton College's Quantitative Inquiry, Reasoning, and Knowledge (QuIRK) Initiative Website

<http://serc.carleton.edu/quirk/index.html>

The URL above gets you to the page with much resource information about assessing quantitative reasoning, and in particular, about how Carleton is approaching it by evaluating students' written work.

<http://serc.carleton.edu/quirk/Assessment/CaseA.html>

This URL makes the case for assessment of QR by analysis of student writing.

<http://serc.carleton.edu/quirk/Assessment/index.html>

This includes a link to the specific rubric developed at Carleton to assess QR via student writing samples.

<http://serc.carleton.edu/quirk/Assessment/goals.html>

This set of student learning goals could be helpful for developing a rubric for QR evaluation.

<http://serc.carleton.edu/quirk/Assessment/protocol.html>

The particular assessment protocol used at Carleton; it is instructive to read to see the role of faculty in evaluating student work.

<http://serc.carleton.edu/quirk/ProgramDesign/Elements.html>

This URL gets you to a useful page on curricular reform – how to go about getting more QR into pedagogy across disciplines – see the links on professional development and examples of curricular revisions.

Other links from the main URL get you to some interesting research findings and info about how the basic Carleton approach is being used at a handful of schools involved with Carleton faculty in a feasibility study.

Useful reading

Rick Gillman (ed.), *Current Practices in Quantitative Literacy*, Mathematical Association of America, 2006

Bernard L. Madison and Lynn Arthur Steen (eds.), *Quantitative Literacy: Why Numeracy Matters for Schools and Colleges*, National Council on Education and the Disciplines, 2003

Lynn Arthur Steen, *Achieving Quantitative Literacy: An Urgent Challenge for Higher Education*, Mathematical Association of America, 2004

Lynn Arthur Steen (ed.), *Mathematics and Democracy: The Case for Quantitative Literacy*, national Council on Education and the Disciplines, 2001