Helping Students Understand & Use Data:

A discussion of the jargon and trends in “Quantitative Literacy”

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Micro & Macro Pedagogical Process

Assumptions

Identify the problem

Reassess

Identify the goal

Negotiate the Scope
A typical assortment of jargon combinations

**Words related to numbers**
- Quantitative
- Statistical
- Mathematical
- Spatial/Spacial
- etc...

**Words related to the action**
- Literacy
- Reasoning
- Methods
- etc...

**Words related to the scope**
- Across/in the:
  - Curriculum
  - Sciences
  - K-12
  - Social Sciences
  - etc...

- For:
  - First year students
  - Non-majors
  - Majors
  - Citizenship
  - etc...
Welcome to the Jargon dictionary. This is where you can find any and all information on Jargon in quantitative literacy. Especially if you type it in!

What do the terms mean to you? How are they used in your Quantitative Literacy programs?

Dive in & give it a try!

Or distract yourself with a different (non-interactive) effort to cut the jargon at the South Australian literacy and numeracy network.
Other Influential literature 1: *(come back to this on the web)*

- **1978** *Overcoming Math Anxiety*, Sheila Tobias, Houghton Mifflin


- **1989-1995** *Quantitative Reasoning for College Graduates: A Complement to the Standards*, Mathematical Association of America

Mathematics and Democracy
The Case for Quantitative Literacy

prepared by
The National Council on Education and the Disciplines (USA)

with funding from The Woodrow Wilson National Fellowship Foundation

Lynn Arthur Steen, Executive Editor
Other Influential literature: (all by Lynn Steen)

- 1990 “Numeracy”, Lynn Steen, *Daedalus*


- 2004 *Quantitative Literacy: Why Numeracy Matters for Schools and Colleges*, Lynn Arthur Steen, Mathematical Association of America
And then it really takes off…

Leaders in QL/Numeracy in the US:

- The National Numeracy Network
- Science & Numeracy with teaching resources
- Quantitative Literacy Across the Curriculum: Everybody's Project
- Quantitative and Symbolic Reasoning teaching resources
- Carnegie Foundation’s Integrated Learning Project
- SERC: Using data in the classroom
- Project Kaleidoscope Assembly on Quantitative Literacy
- PKAL Assembly on Quantitative Literacy
  . . . Etc.
Quantitative literacy is an approach to pedagogy

... not a curriculum
... not a single course
... not an exam checklist
Pedagogy & Assessment Connection at Carleton College

Assessment of student written work for evidence of quantitative inquiry, knowledge and reasoning goals.

Student writing assignments submitted for the Writing Portfolio and writing assignments from courses emphasizing quantitative reasoning collected.

Refinement of a rubric that can be used to identify and quantify the degree to which students achieve the quantitative inquiry, knowledge, and reasoning goals.

Faculty workshops led by faculty with experience teaching courses rich in quantitative reasoning, to bring new faculty into the discussion of how to use quantitative reasoning, informed by assessment to achieve student learning.

Correlations identified between curricular innovations and measures of the degree to which quantitative inquiry, knowledge, and reasoning goals are achieved. A summary of what curricular innovations have worked.

Faculty development of new courses and course revisions informed by the assessment results.
Welcome to the blog on Numeracy

Find under General — Paula Leduc & 12:22 am Edit This

Able to think and express oneself effectively in quantitative terms.

But it’s so much more than that!

This blog is about having open space to share resources (and there are many!) ideas, processes and advise with others working on issues of Numeracy in higher education.

In addition to the more linear blog portion of this site, there is a WordPress Wiki. The Jargon Wiki is a place to collectively work on the process of defining the terms of this endeavor.

Comments (0)

What Numeracy term/s do you prefer?

Find under General — Paula Leduc & 12:22 am Edit This

Finding a definition is not as easy as you’d think!

A typical assortment of jargon combinations

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What was that URL?

http://blogs.its.carleton.edu/numeracy/