

# Helping Students Understand & Use Data:

...

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

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Paula Lackie

May 27, 2004

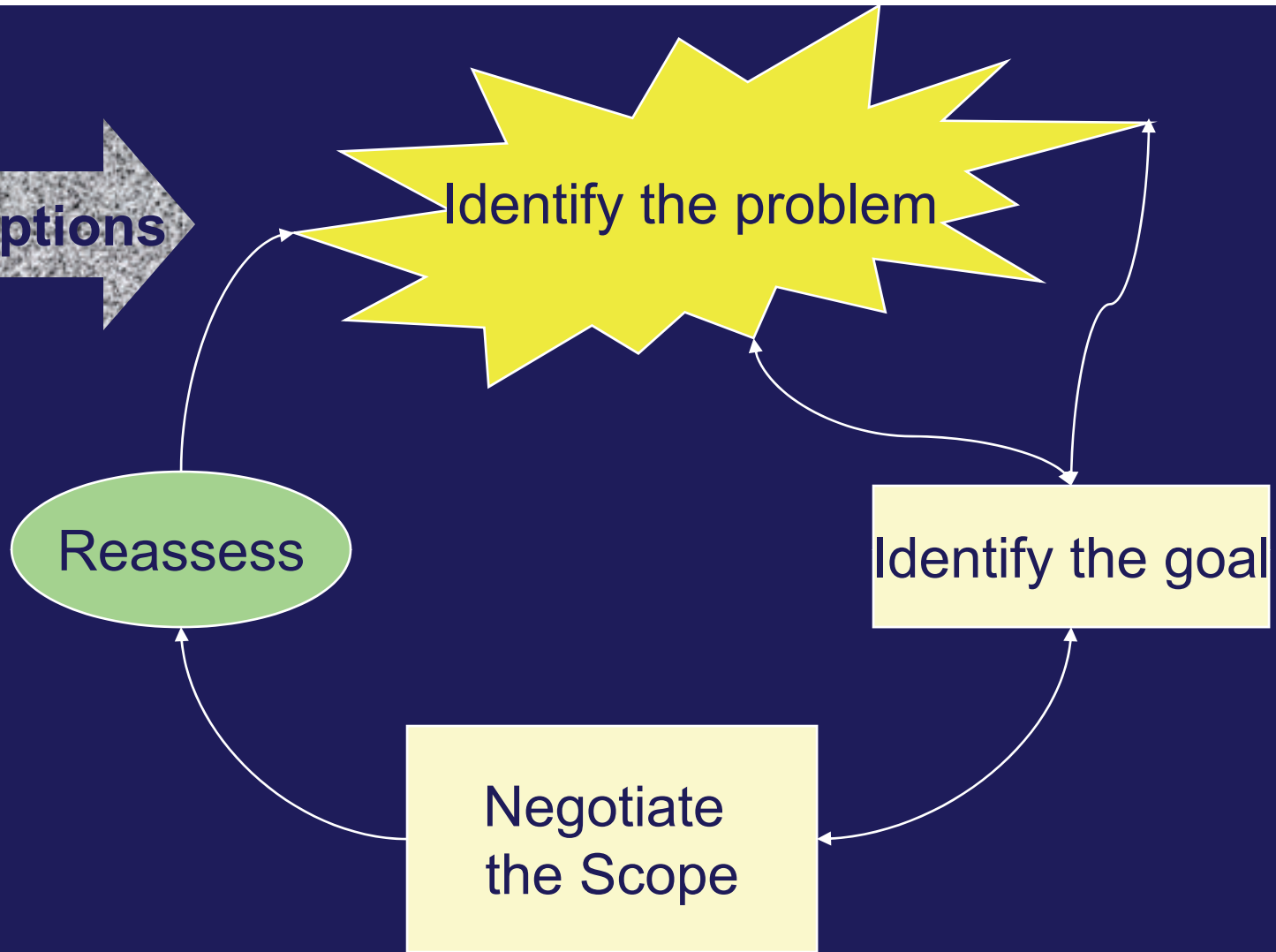
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Assumptions



## Micro & Macro Pedagogical Process

## 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:

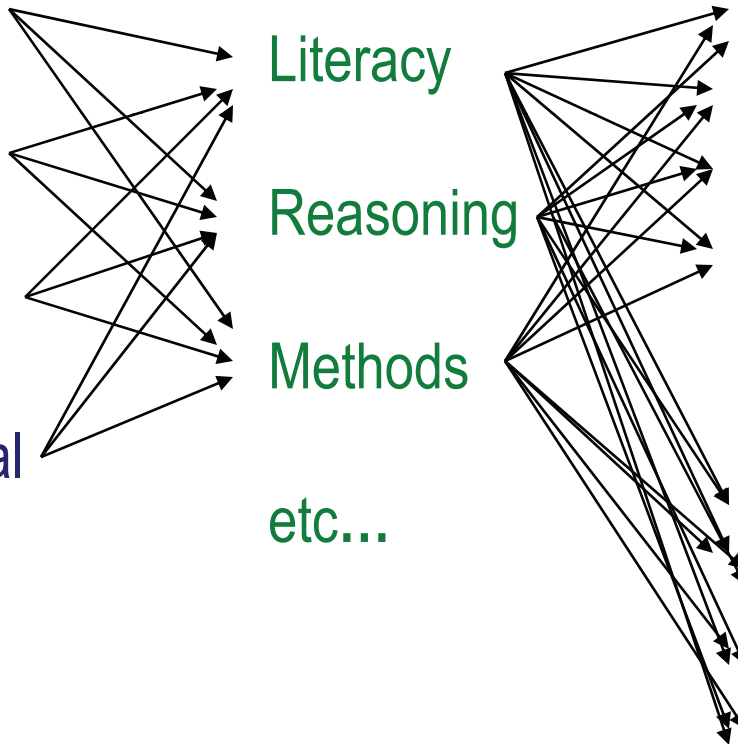
-First year students

-Non-majors

-Majors

-Citizenship

etc...



# Numeracy Wiki

Numeracy

[Index](#)

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](#)

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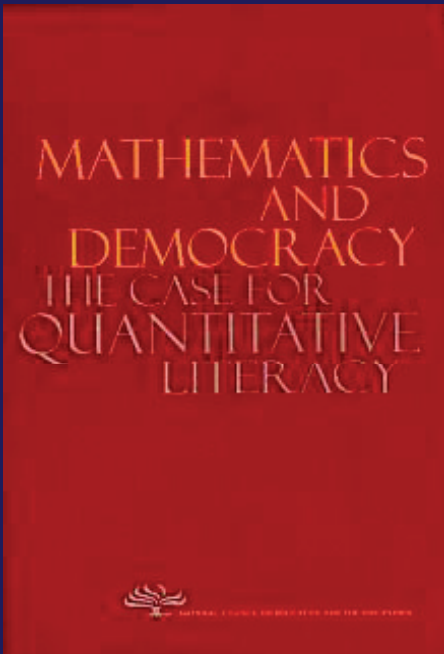
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Go to "http://blogs.its.carleton.edu/numeracy"

## Other Influential literature 1: *(come back to this on the web)*

- 1978 *Overcoming Math Anxiety*, Sheila Tobias, Houghton Mifflin
- 1988 *Innumeracy: Mathematical Illiteracy and Its Consequences*, John Allen Paulos, Vintage Books
- 1989-1995 *Quantitative Reasoning for College Graduates: A Complement to the Standards*, Mathematical Association of America
- 1989 *Everybody Counts: A Report to the Nation on the Future of Mathematics Education*, National Research Council



# 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*
- 1997 *Why Numbers Count: Quantitative Literacy for Tomorrow’s America*, Lynn Steen, Ed., The College Board
- 1999 “The New Literacy for a Data-Drenched Society”, Lynn Steen, *Educational Leadership*
- 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:

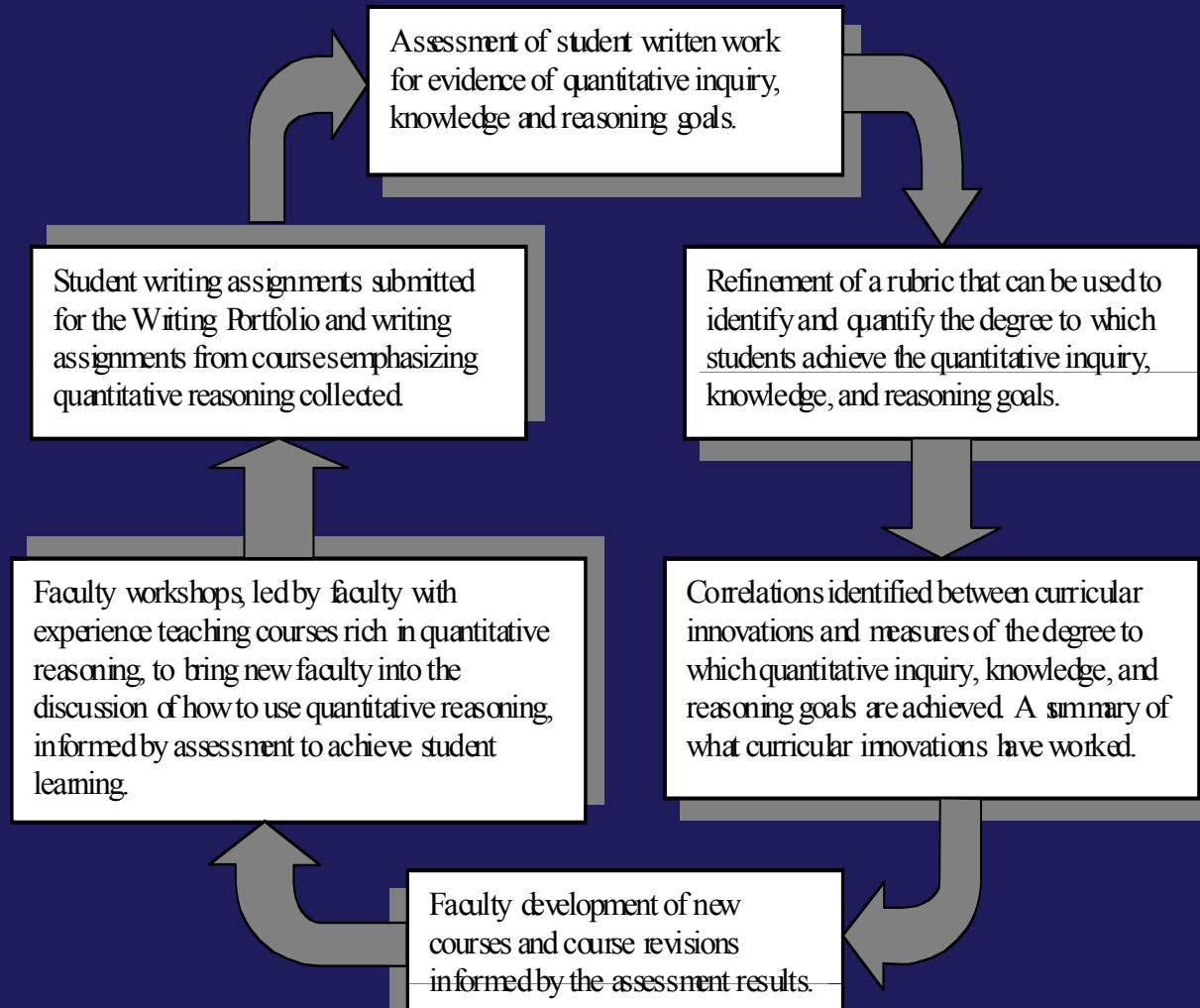
- [The National Numeracy Network](#)
  - [Science & Numeracy with teaching resources](#)
  - Quantitative Literacy Across the Curriculum: [Everybody's Project](#)
  - [Quantitative and Symbolic Reasoning](#) teaching resources
  - Carnegie Foundation's Integrated Learning Project
  - [SERC: Using data 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



Numeracy

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5/27/2004

May 2004

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**Welcome to the blog on Numeracy**  
 Filed under: [General](#) — Paula Lackie @ 12:22 am [Edit This](#)

**nu mer-a-cy** (*n*<sup>oo</sup>*oo*<sup>oo</sup> m<sup>oo</sup>-r<sup>oo</sup>-s<sup>oo</sup>) *n.*  
 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.**

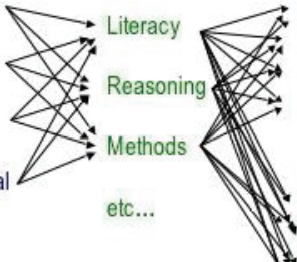
In addition to the more linear blog portion of this site, there is a [WordPress Wiki](#). The [Jargon Wiki](#) is a place to collectively work on the process of defining the terms of this endeavor.

[Comments \(0\)](#)

**What Numeracy term/s do you prefer?**  
 Filed under: [General](#) — Paula Lackie @ 12:22 am [Edit This](#)

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

**A typical assortment of jargon combinations**

Words related to numbers	Words related to the action	Words related to the scope
Quantitative		<u>Across/in the:</u>
Statistical		-Curriculum
Mathematical		-Sciences
Spatial/Spacial		-K-12
etc...		-Social Sciences etc...
		<u>For:</u>
		-First year students
		-Non-majors
		-Majors

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