Logic and Literacy (Math and Writing

Connecting Quantitative Literacy with Traditional Literacy, and Changing The Conversation about Mathematics By Professor Prime

Introduction

Mathematics is often treated as a siloed subject, despite its connection to everything.
We discuss the universe using mathematics. Quantitative Literacy is crucial in that. It permeates everything as a result.
Traditional Literacy is also important. Knowing how to read, how to write, and how to communicate impacts our everyday lives.

If You Can Write A Paper, You Can Do Math

- How so? Why say that?
- There is logic in your paper.
- You are communicating when you are doing math.
- There is more to it though. Let's discuss that further.

The Connection between Quantitative Literacy and Traditional Literacy

- The connection between quantitative literacy and traditional literacy goes past the analogy.
- When we do math, we are conveying information we are making a statement.
- We are forming arguments, and communicating our process.
 We have to translate that information.
- Going back and forth between math and your native language is crucial, key.

Logic

- At the root of quantitative literacy and traditional literacy lies logic. In both we apply reasoning.
- We use established rules and structures to form arguments.
- We aim for something cohesive, something cogent.
- The further we move up in math, this made more clear in some ways but not everyone has that luxury.

Math As A Foreign Language

 Math is a language, and it very much is. If I am writing a paper in a foreign language, I need to know the mechanics of that language, how it is structured, the vocabulary, the syntax, and more. I need to have a firm understanding of that language. I need to build up statements to properly write my essays. I need to be able to translate back and forth between my language and math.

Quantitative Literacy and Traditional Literacy Questions

How does this connection impact organization?
How does this connection impact S.T.E.M. Classes?
How does this connection impact Non-S.T.E.M Classes?
How does this connection impact teaching as a whole?
How does this connection impact math as a whole?

Conclusion

- No one grows up wanting to hate math. I want to see a world where people don't hate it or fear it.
- Those with strong traditional literacy skills have an incredible amount of potential when it comes to math.
- Those with strong quantitative literacy skills can be effective writers and those skills are crucial.

Contact and Resources

- Official Math Time With Professor Prime Site: https://www.mathtimewithprofessorprime.com/
- Online Math Resources: https://www.mathtimewithprofessorprime.com/online-m ath-resources
- Math Time With Professor Prime YouTube: https://www.youtube.com/channel/UCRyNBE4-joAVYIYb NUaZ2Kw
- Math and Writing Playlist Videos for Math Time with Professor Prime: https://www.youtube.com/watch?v=rRht4OjWCaY&list= PLEdBh6aRWf2SHlzzZ4rbk72a_Vh9XAxrc