Mathematics is Not a Language

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Abstract: It is hypothesized that mathematics is not a language but a series of symbols used to make measurements which either combine or subtract them. It does not possess the ability to communicate any idea effectively because there are no concrete objects in mathematics. In real languages in which a person can communicate ideas to one another, both abstractions and concrete ideas are needed for meaning. The use of abstractions only as in the case of mathematics means that communication is avoided all together. This is why quantum mechanics, general relativity, string theory and other purely mathematical theories are not scientific theories but unfalsifiable conjecture without meaning. This is why they are still taught in schools and why they will never be falsified because they are unfalsifiable as they contain no meaning.

It is known to the author that language is the most valuable technology ever invented by humans. It is used for a variety of purposes such as:
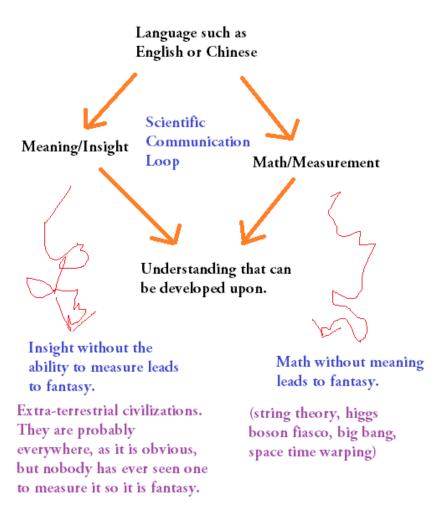
1. Warning of danger.

2. Giving directions.

3. Expressing confusion.

4. Explanation of phenomenon.

For the reader it should be known that the most brilliant of scientists communicates the most effectively, as science is the art of successful communication. The wider the range of abstraction to concrete object to abstraction used determines the depth of the understanding of scientist to scientist. For instance:

1. If a scientist says, "object A is hotter than object B", then communication happens because heat is known to burn and has meaning inside of a person's mind.

2. A mathematician says object A = 3 and object B = 2. As we can see there is no communication happening because there is no meaning given. Numbers do not possess meaning, numbers are symbols used to categorize and measure understanding of concepts, as in this case the concept of "heat".

3. In the above example to give meaning to the A = 3 and B = 2 we place a K, C or F next to it to denote "heat". We could easily just say A = 3 heat and B = 2 heat and it would be just as

correct for communication/scientific purposes just as long as we realize that heat is the same as "Kelvin".

We can even see another point in this example as it is not the number that needs to remain consistent it is the concept that gives the number meaning that needs to remain consistent. If you place an F next to it, then we all know that F (Fahrenheit) is not K (Kelvin), because 0 K is not 0 F but they both mean heat. This redundancy is prevalent and still plagues the sciences. Correcting this issue is not important for the purposes of this paper. The reason why this was shown was because the NUMBER is exactly the same, 0, yet the MEANING is different. This is why mathematics is NOT a language in of itself. It is a subset of language, the measuring subset which is completely absent meaning and insight. A diagram is provided below of why this is important:

Language such as English or Chinese

Scientific Communication Loop

Meaning/Insight

Math/Measurement

Understanding that can be developed upon.

Insight without the ability to measure leads to fantasy.

Extra-terrestrial civilizations. They are probably everywhere, as it is obvious, but nobody has ever seen one to measure it so it is fantasy.

Math without meaning leads to fantasy.

(string theory, higgs boson fiasco, big bang, space time warping)

Therefore it can be concluded that any theory that rests on math containing meaning is a failed scientific theory from the start. Mathematics is not a language in of itself. Purely mathematical theories contain no meaning and are quite useless to the pragmatic laboratory inclined scientist.