

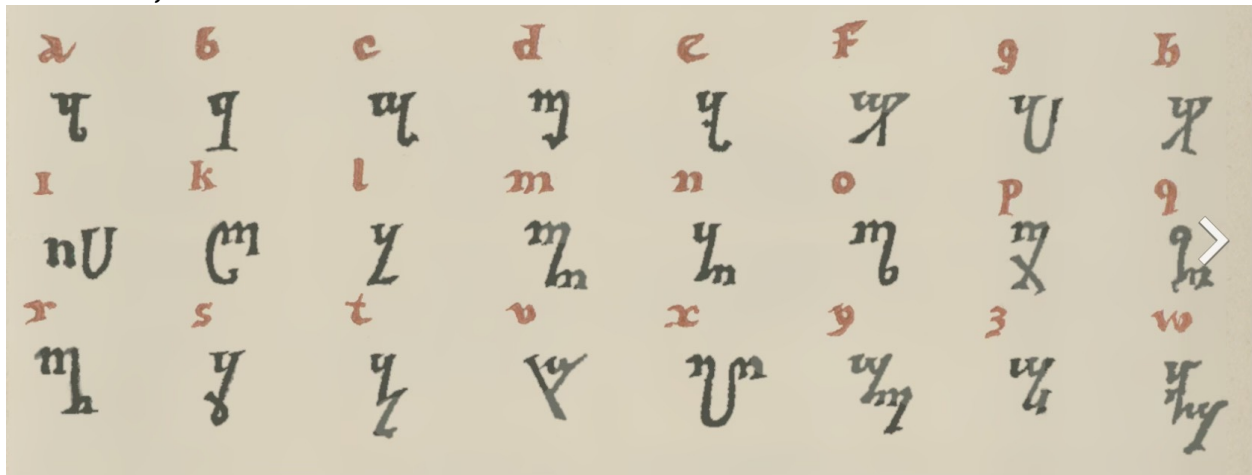
Final

For parts 1 and 3, you may use known symbols, invent some of your own, or use a combination. Please include a symbol key with your assignment (especially if you make any of them up) so I can follow along.

1) Select a spell from the Grimoire (pp 196-202). Try to write the spell as an equation, using only symbols. Think about the components, the forces at work, the interactions of those components and forces, and the desired intent.

For the spell, I choose the following:
GENERAL INCANTATION OF MANIFESTATION

*By all the powers of Earth and Sea,
By all the might of Moon and Sun,
As I do will, so mote it be!*



On page 106 of the Grimoire for the Apprentice Wizard, OZ recommends writing spells using Theban runes, as seen above. This is a simple substitution cipher.

I will also use the Greek symbol capital Sigma to represent the Summation function.

powers $\rightarrow m_x$ Earth $\rightarrow y$
 Sea $\rightarrow y$
 might $\rightarrow m_m$ Sun $\rightarrow u_h$
 Moon $\rightarrow m_b$

all powers $\rightarrow \sum (m_x(x))$

all might $\rightarrow \sum (m_m(x))$

all power of Earth and Sea

$\rightarrow \sum (m_x(y)) + \sum (m_m(y))$

all the might of Moon and Sun

$\rightarrow \sum (m_x(m_b)) + \sum (m_m(u_h))$

as $\rightarrow y$
 I $\rightarrow nU$
 do $\rightarrow m$

A I do will $\rightarrow y \ nU \ m \ y_h$

will $\rightarrow y_h$

So $\rightarrow (m$ So mote it be $\rightarrow (m \ y \ x \ y$

mote $\rightarrow y$

it $\rightarrow x$

be $\rightarrow y$

$\sum (m_x(y)) + \sum (m_m(y)) +$

$\sum (m_x(m_b)) + \sum (m_m(u_h)) .$

$y \ nU \ m \ y_h = (m \ y \ x \ y$

2)

Words: 706

Characters: 4126

Sentences: 41

Paragraphs: 18

Reading Time 2 mins 34 sec

What comparisons can you draw between the spellwork and mathematics?

Spellwork includes

1. The material component such as shells, feathers, mineral rocks, or candles
2. The verbal component such as an incantation
3. The mudra component (physical gesture) such as making a Y with your arms or pointing

Mathematics includes

1. The material components such as symbols and functions
2. The verbal component such as quotient, factorial, or radicand
3. The mudra component such as using a slide ruler to measure distance

These two are similar in my opinion because they both have initial starting conditions, and through one or more actions they illicit change in the initial condition towards the direction they want to go in. People have spent their whole lives constructing proofs of one function in a specific range and domain previously which we now use freely. The same thing can be said for spell work. Passed down from generation to generation is the hidden knowledge of how to use herb or how to treat a person's upset stomach. In both cases the human race has advanced their respective fields little by little so that the next generation can do more with less.

Are there any symbols? Variables? An Order of Operations?

Written and verbal symbols are a convenience we have developed so that we can share ideas with other humans easier. Much like the English language uses Latin letters, Mathematics utilizes Greek letters. In the case of Spell work there are several symbol sets available such as the Greater Key of Solomon Runes, the Elder Futhark Runes, or as outlined above the Theban Runes. In all cases each symbol is a contract between us all that outline the behavior by itself and when used with other symbols.

Variability plays a big part of mathematics, no doubt. But one might come to conclusion that at face value Spell work does not include variables, but they would be wrong. One must consider the underlying attributes. So for example when masking an energy tonic you can substitute several different herbs, roots, or seeds as the primary ingredient. The end result is going to vary in flavor and perhaps acidity but will still give you energy. The same is true for functions like square root. The end result is going to vary between integers and decimals and perhaps infinities but \sqrt{x} will still be the opposite of $(x)^2$.

Order of operations plays a big part in mathematics in general and extend beyond the typical PEMDAS that people are used to seeing. Take for example the unitary minus operator or "negative" sign which used with the binary operator "addition" $1+-4$. The same is true for spell work. Spell work is both scientific and artistic in that you intentionally mix materials to cause a reaction. In some cases this may be a chemical reaction that if done out of order could result in

hazardous outcomes. When considering the etherial aspect of a spell, if the spells calls for focusing in on joy and harmonizing with the target's psyche followed by doubling your engery, when done out of order the double of energy does nothing. It is important to be careful in the order of operations in both math and spell work.

Why must we perform these actions, with these forces, in this order?

The material components contain the ether that couples with the target in some way. We combine some material components and allow for a change. We charge the mixture with our intentions, energy, and will. The actions, forces, and order matter because it is how you get the materials to manipulate into the form of your desire to couple with the target and manipulate it as well.

What might happen if our magical equation is incorrect?

Mixing materials in the wrong order may result in chemical mishaps that can be physically harmful to us, the material combination may result in an attribute that does not attune with the target resulting in a failed spell and waste of materials, or perhaps say the wrong phrases fails to guide our intentions well enough and we lack the intentions to command the materials. When compared to mathematics, not following the order or function properly results in the wrong answer.

3) What do you believe the Path of the Clear Mage to be?

A Clear Mage works with the lore and art of mathematics and mathemagicks such as sacred geometry, numerology, theory of relativity, and quantum mechanics, etc. They use math as tools for divination with shocking accuracy.

A Chaos Magician helps nudges things along very carefully. They are aware of the Butterfly effect their actions have and are cautious every step of the way. They pay attention to attributes, spiritual energies, attuned planets, and other attributes of the materials they work with. They are careful of the actions they perform and cast the intention thoughtfully into the void. They heed the proper order of things.