Googology

Googology is the study of the number googol (1.0×10^{100}), or study of very large numbers.

One googol:
10,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000.

Chaology

Chaos theory is often called the butterfly effect and is an extremely important study that helps us predict the seemingly unpredictable.

Chaos is all about dynamical systems that appear random and disorderly but is actually adhering to some very complex patterns and laws that are dependent on starting conditions.

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Monsterology

Not monsters, per se, but the Monster group of numbers, an area of abstract algebra.

This is the highest-order sporadic group and sits outside of the four infinite families of finite simple groups – and is therefore anything but simple.

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Promorphology

A promorphologist looks at biology through a mathematical lens.

For example, they might look at the geometry of cell division in embryos, which can inform us about the chemistry and balance of how babies grow.

Metrology

Measurement is fantastically important in and out of science, and metrologists study, refine, simplify and maintain measurements to helps us all understand each other.

They like all sorts of measurements, from time, distance and weight, to parts per million of salt in tap water.

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