The Map of Mathematics

Domain of Science

The mathematics we learn in school doesn't quite do the field of mathematics justice. But the mathematics as a whole is a huge and wonderfully diverse subject. The origin of mathematics lies in counting. There were several innovations over the years with the Egyptians having the first equation. Negative numbers were invented in China and zero as a number was first used in India. The study of structures is where you start taking numbers and putting them into equations in the form of variables. Algebra contains the rules of how you then manipulate these equations. Number theory studies the features of everything in the last section on numbers. Combinatorics looks at the properties of certain structures like trees and graphs. Group theory looks at objects that are related to each other in groups. And order theory investigates how to arrange objects following certain rules. Measure theory is a way to assign values to spaces or sets tying together numbers and spaces. Physics uses just about everything on the left hand side to some degree. Mathematical and theoretical physics has a very close relationship with pure maths. Mathematics is also used in the other natural sciences with mathematical chemistry and biomathematics. Mathematics also used extensively in engineering. Building things has taken a lot of mathematics and spaces.

Ancient times. The map of mathematics covers the main sections on the and applied mathematics. This area tries to work out at the properties of mathematics itself and asks what the basis of all the rules of mathematics is. Mathematical region set theory and category theory try to answer this. Machine learning : the greaten of the ligent composed vetems uses many areas in mathematics like linear algebra and optimisation. And the theory of cryptography is very important to computation and uses a lot of pure maths.