

**Math as science: Fields of mathematics**

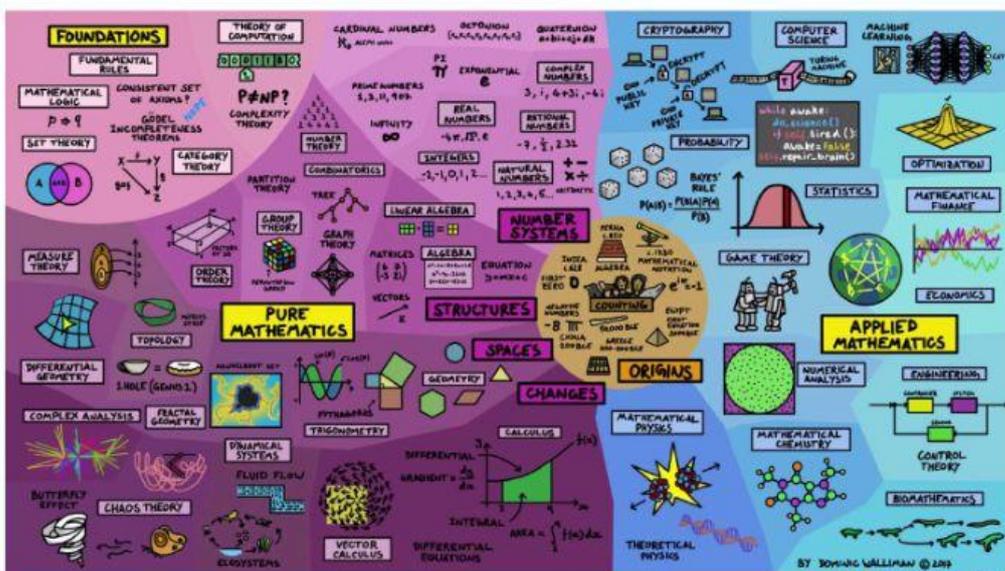
A. Activating prior knowledge. Read the title and predict the topic. Then complete this chart. Lea el título. Sobre qué cree que se tratará esta clase? Completa las primeras dos columnas del cuadro usando tu conocimiento previo y lo que te gustaría aprender.

Know: la información que conocías antes de leer el texto

Want to know- la información que le gustaría saber

Learned - la información que ha conocido después de leer el texto

Know (lo que ya sé)	Want to know (lo que quisiera saber)	Learned (lo que aprendí)



## FIELDS OF MATHEMATICS

Mathematics is the branch of science, which deals with numbers, involves calculations and mainly focuses on the study of quantity, shapes, measurements etc.

Mathematics can be subdivided into the study of structure, quantity, space, and change. There are also subdivisions dedicated to exploring links from mathematics to other fields: to logic, to set theory (foundations), to the empirical mathematics of the various sciences (applied mathematics), and more recently to the rigorous study of uncertainty.

- 1) Write your interpretation of the text. Escribe tu interpretación del texto. Para interpretar, no es necesario entender cada palabra. Trata de no recurrir a traductores.

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- 2) Choose words from this list and complete the text

Algebra - Statistics - Trigonometry - Analysis - Arithmetic -  
Geometry -

1. \_\_\_\_\_

This is the oldest and most fundamental branch of math. This branch deals with the basic operations and numbers. The basic operations are subtraction, addition, multiplication and division.

2. \_\_\_\_\_

This is a type of arithmetic. Here, we find the value of unknown quantities, such as X, Y, and Z. We generally use English alphabets (variables) as unknown numbers. Several formulas are used to solve the equations to calculate the unknown value. This is studied in high school education.

3. \_\_\_\_\_

It is considered the most practical branch. It deals with the construction of figures, shapes and their properties. The basics of this field are points, lines, surfaces, angles and solids. In this field, we use many mathematic tools such as scale & protractor.

4. \_\_\_\_\_

This field is derived from Greek words trigon means triangle and metron refer to measurement. So, it is clear from the name that is the study of triangle sides and angles.

5. \_\_\_\_\_

This is a little complex branch of mathematics. It deals with the study of rate of change with respect to specific quantities. The base of this field is Calculus.

6. \_\_\_\_\_

This is the branch that deals with the collection of huge data. In this field, we organize it and analyze it to get final results. Such as the population of any country estimated through this branch.

**3) Which of these statements are true? Correct the false ones.**

1. Mathematics can be subdivided into the study of quantity, structure, space, and change.
2. Trigonometry is the branch of mathematics that deals with relationships between the shapes and the angles of triangles; it combines space and numbers, and encompasses the well-known Pythagorean theorem.
3. Statistic is the branch of mathematics that deals with basic operations and numbers
4. The base of Analysis is Calculus

4) Complete these sentences with verbs from this list

HELP - CONSIDER - USE - DIVIDE - FIND - SOLVE

- To solve the problem of gravitation, scientists ..... time-space geometry.
- We ..... GeoGebra for this project
- Parents can't ..... their children with their arithmetic homework.
- We ..... the solution using a calculator
- Let's ..... this problem!
- Use a calculator to \_\_\_\_\_ this number