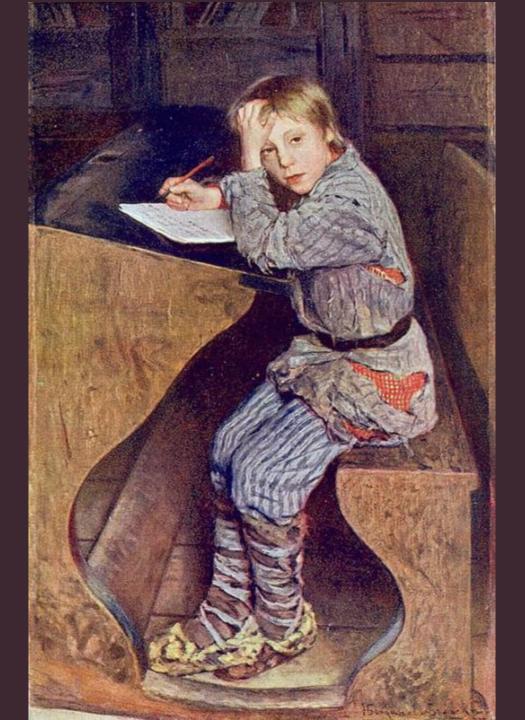


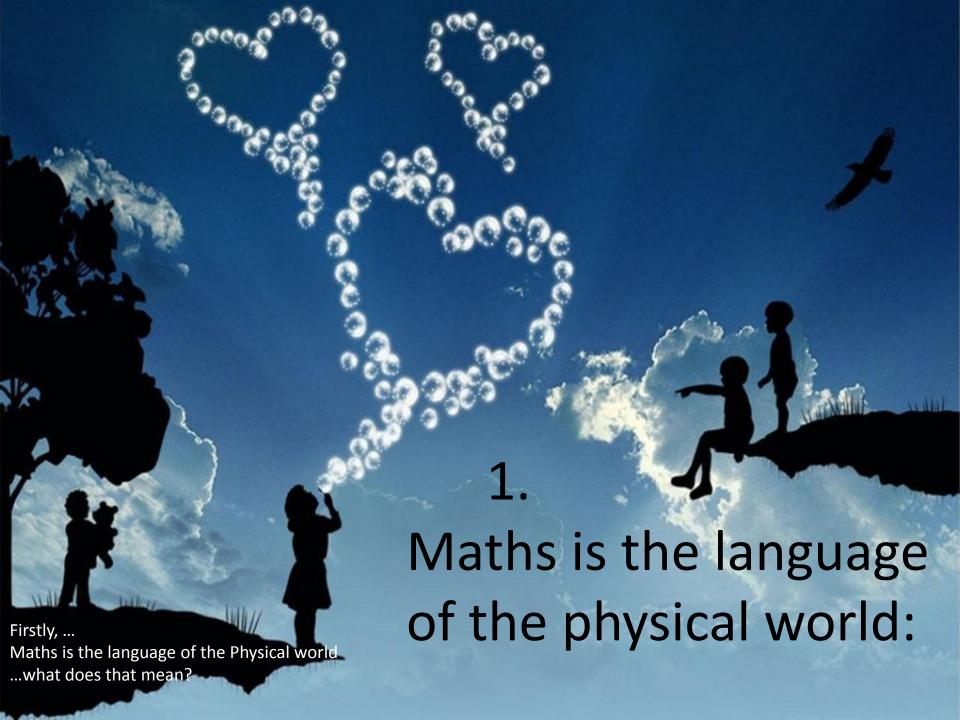
WHY???



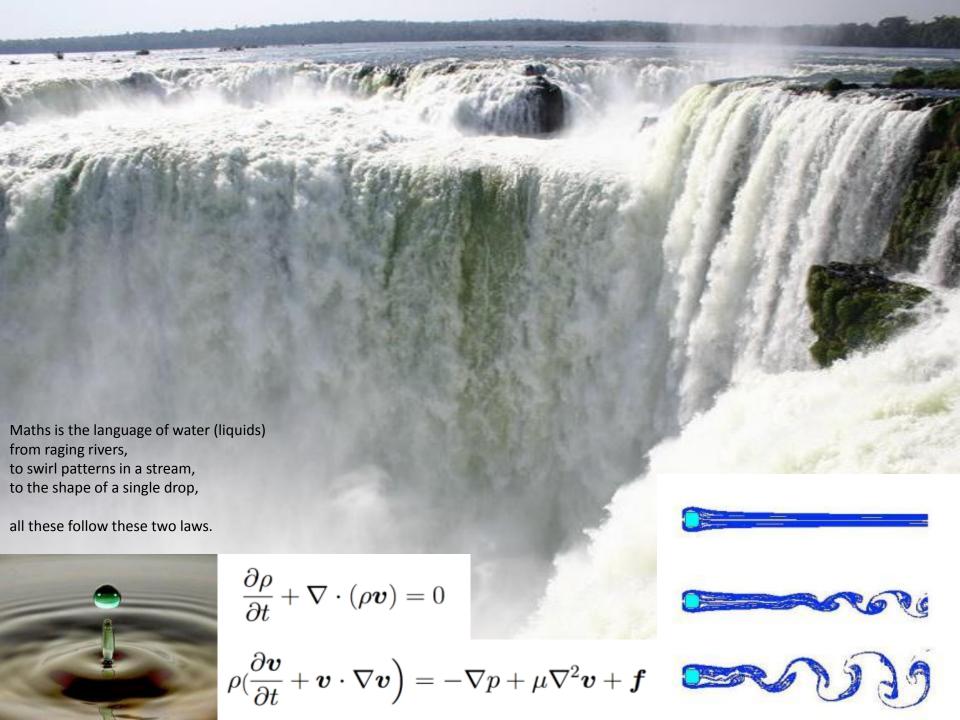
Why maths?

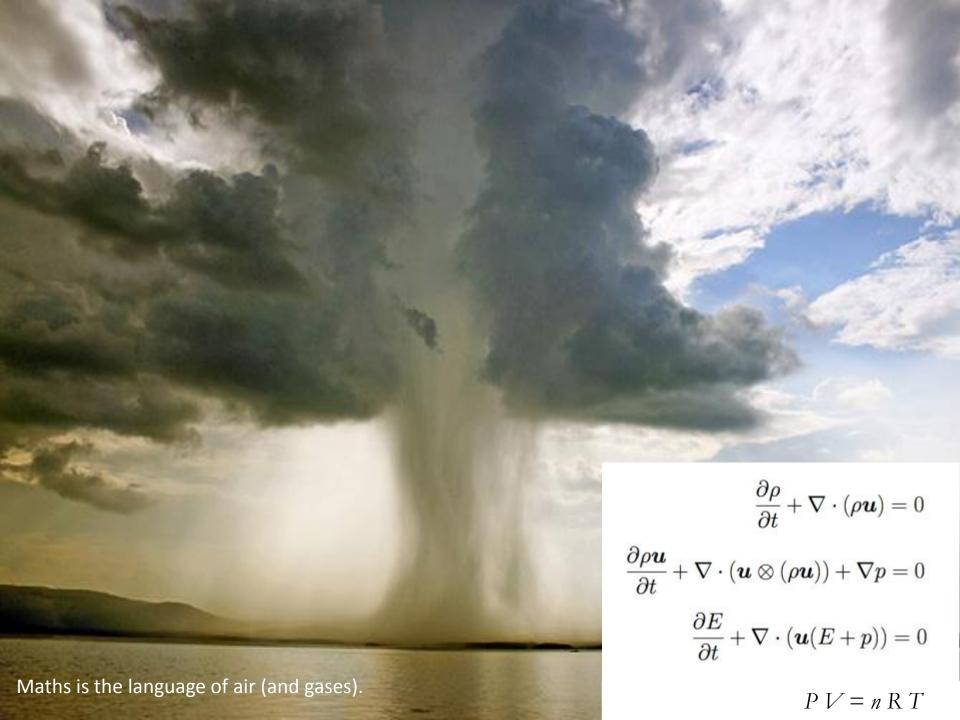
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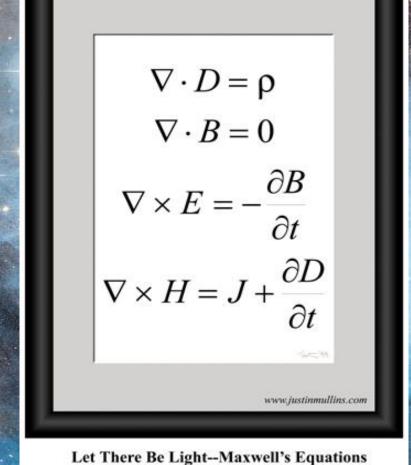
Why learn maths?
If you'll indulge me,
let me give two answers





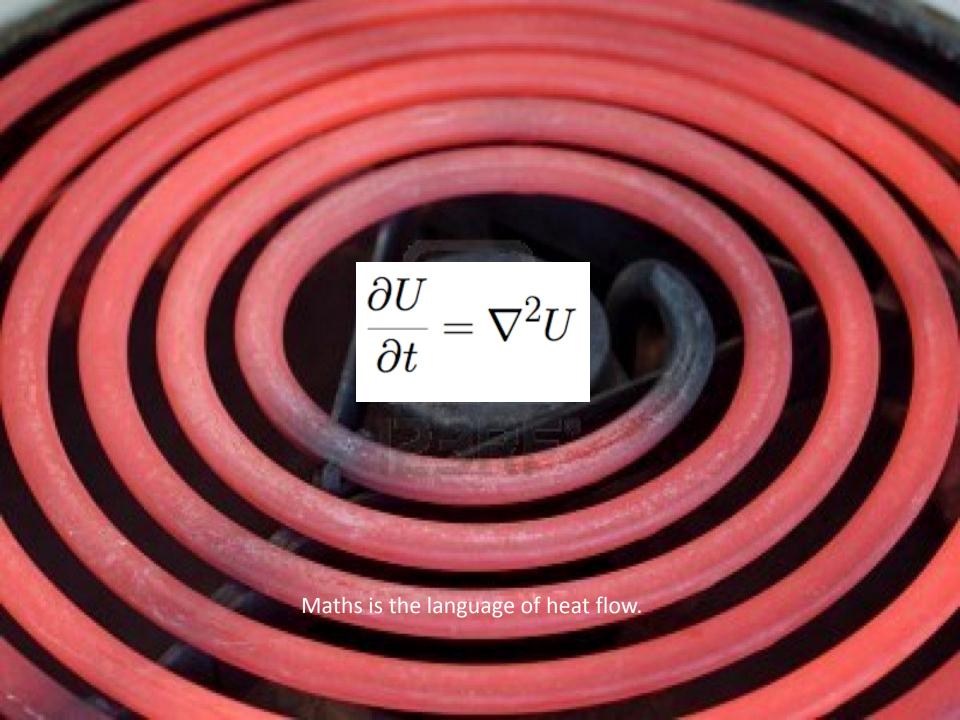


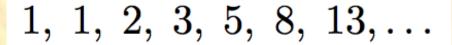




Electricity, magnetism and even light

are governed by mathematical equations.



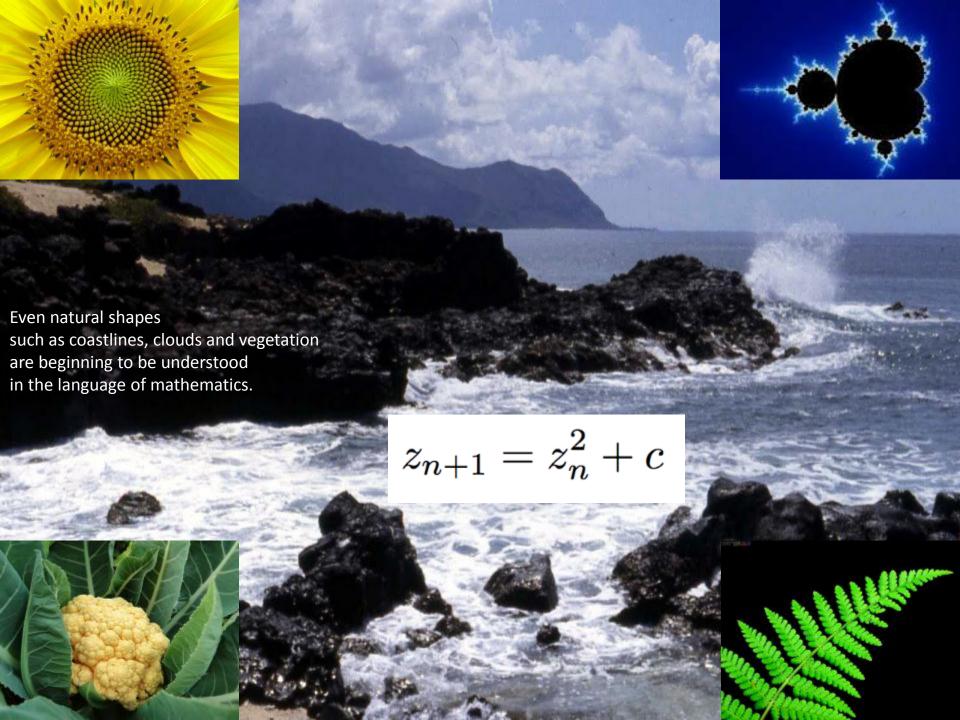


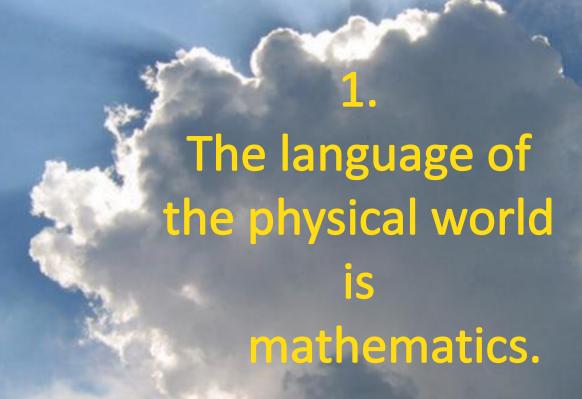




Aesthetic proportions in nature such as shells, pineapples, flowers and the proportions of the human body are described by mathematics.

$$\frac{1}{\sqrt{5}} \left[\left(\frac{1+\sqrt{5}}{2} \right)^n - \left(\frac{1-\sqrt{5}}{2} \right)^n \right]$$





Why learn maths?

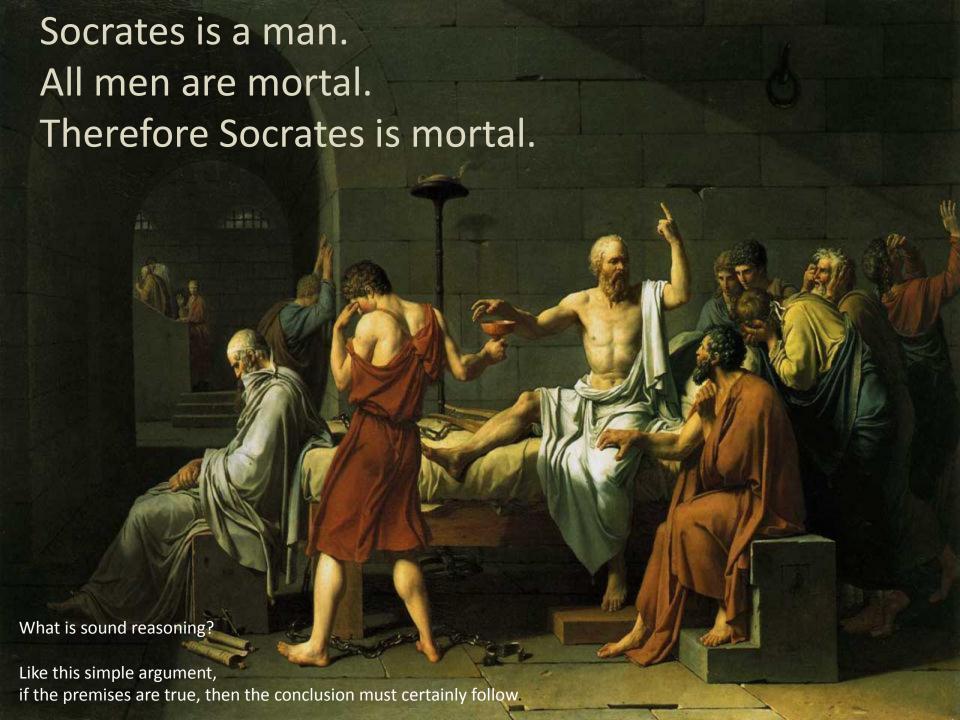
- because the physical world speaks maths.

If you want to get by living in France, you learn French.

If you want competence within the physical world, learn maths.

Mathematics is training in sound reasoning





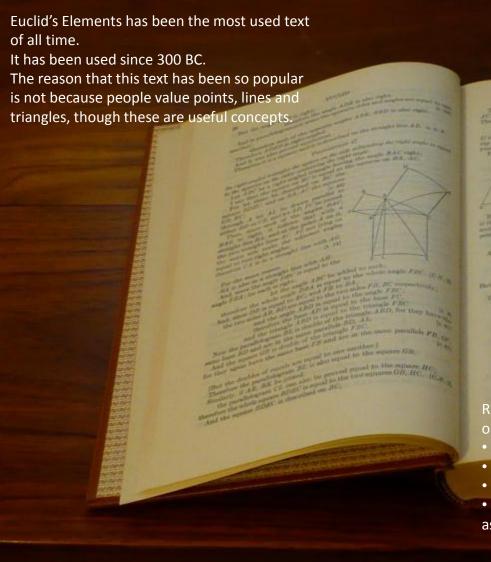
ΑΓΕΩΜΕΤΡΗΤΟΣ ΜΗΔΕΙΣ ΕΙΣΙΤΩ



Above the door of Plato's Academy was posted

Let no one come to our school who has not learned the geometry of Euclid.

because geometry is training in sound reasoning.



profit the exposure on EC is separal to the exposure on Hd, AC, but the major like approximate the separal to the exposure on Hd, AC, but the major like (a. 45), positions, then exposure on EC is exposure on EC in the exposure on EC.

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Rather, the popularity and importance of Euclid's *Elements* is due to the orderly quality of the exposition:

- every step is sound.
- all the parts fit together, and
- each part builds upon the previous ones in a logical fashion, so that
- the final conclusions of the work hold true with the same certainty as the initial postulates.

Euclid's

Elements

2.
Mathematics is training in sound reasoning.

With this standard of perfect reasoning, mathematics is the backbone of science and a strength to western civilization.

