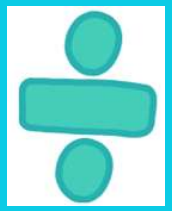
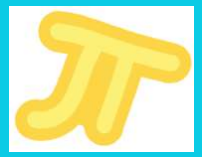
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Mathematics is Everywhere











"Mathematics is not about numbers, equations, computations, or algorithms… it is about understanding."

William Paul Thurston



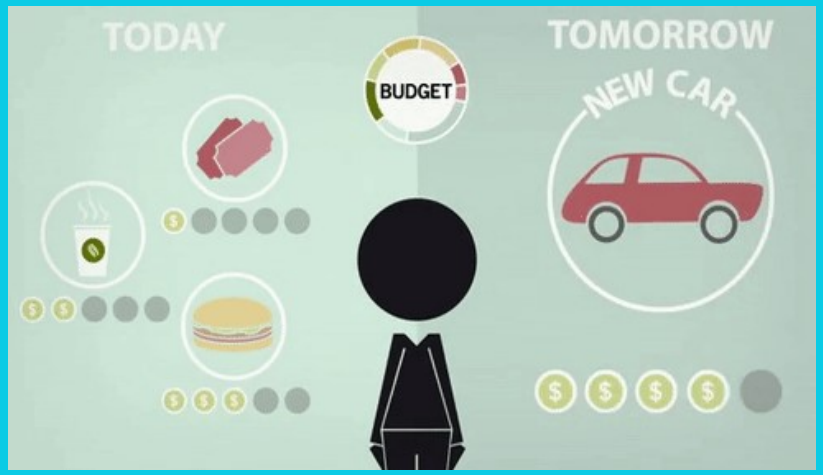
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MAKING ROUTINE BUDGETS

How much should spend today?

When I be abel to buy a new car?

Should I save more?





PLANNING A TRIP

The budget

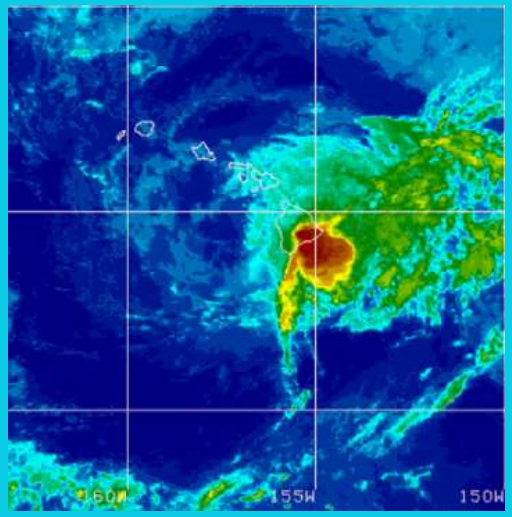
The number of days

The destinations, hotels…

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Weather Forecasting

Probability

Statistics

Using weather stations,satelites and supercomputers

Using numeric simulations to create a forecast

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Automobiles Industry

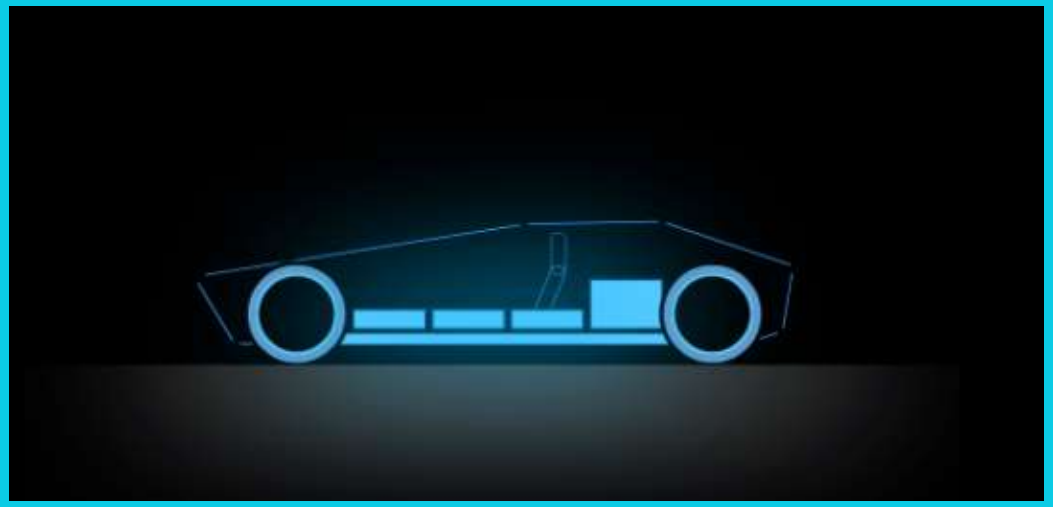
Ratios and proportions

Geometry…

Driving

Spead, Time and Distance





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Exercising, Training, Sports

Sport is performance, quantification of time, strength, repetitions, proportions, speed, angles of motion, mass, acceleration.

The most diverse areas of sports involve concepts and magnitudes from mathematics.



"In performance sports, what makes the difference between second place and the gold medal is mathematics."



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To make a pass it is necessary to calculate the **strength** that the kick must have according to the expected range.

If it is necessary for the ball to have a more **'curved' trajectory**, the kick must take place at a certain **angle**. Of course that during the match no calculations are made, but the concepts have to be well established for the athletes.



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ComputerApplications

Computation

Algorithms

Coding Methods

Cryptography

Video Games

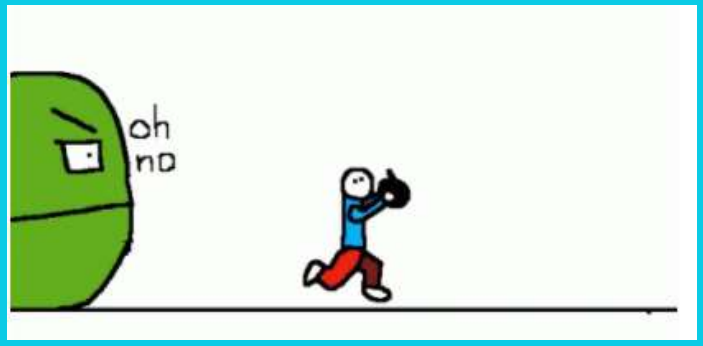
Game theory

Probability

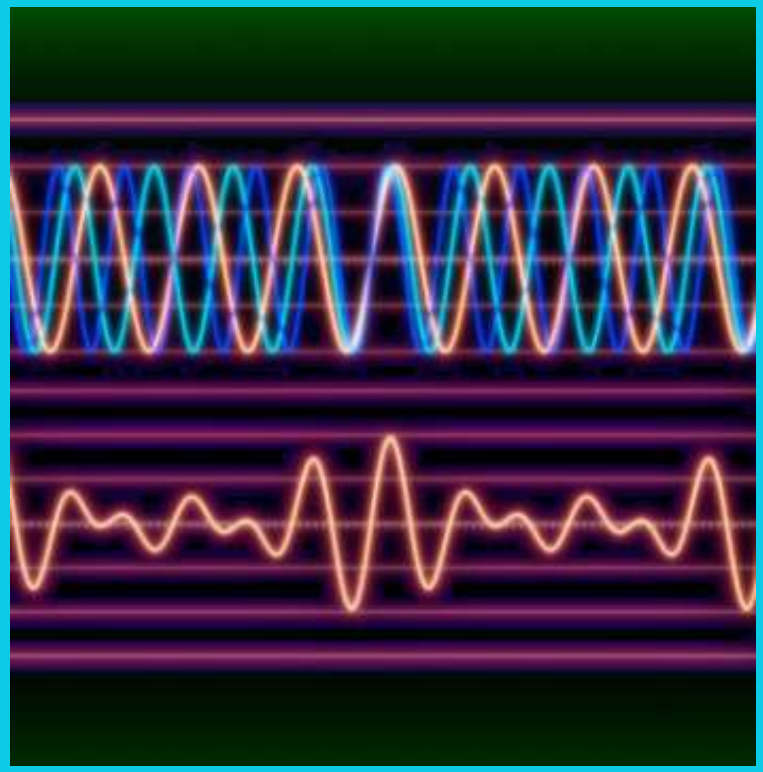
Logical Reasoning

Geometry

Statistics



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Digital Music

Music consists of waves that vibrate in our ears Sound waves are the combinationof many waves with different frequencies

Without Mathematics there would be no iPods, Spotify or iTunes

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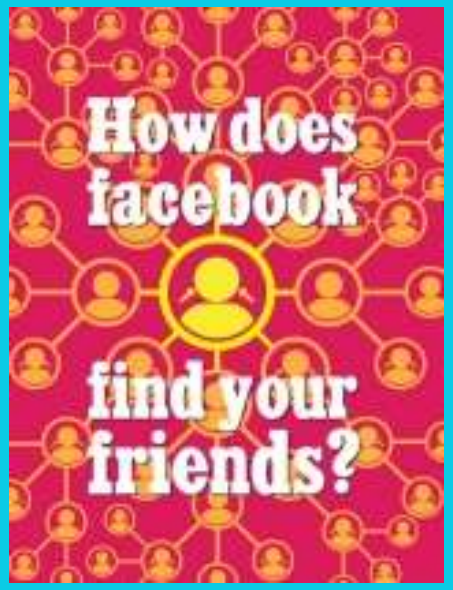
Marketing

Budgeting

Percentages

Probability

Statistics



Using math

Using probability to create the list

Identify patterns

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Financial Mathematics

Statistical models to analyse historic economic data

Probability and Stochastic calculus to predict the behaviour of financial markets



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- Preparing food.
- Understanding loans for trucks, schooling, cars, homes, or other purposes.
- Understanding sports (being team statistics and a player).
- Baking.
- Sewing.
- Managing money.
- Shopping for the best price.
- Figuring out time, distance, and cost for travel.
- Playing music.
- Home decorating.
- Gardening and landscaping.















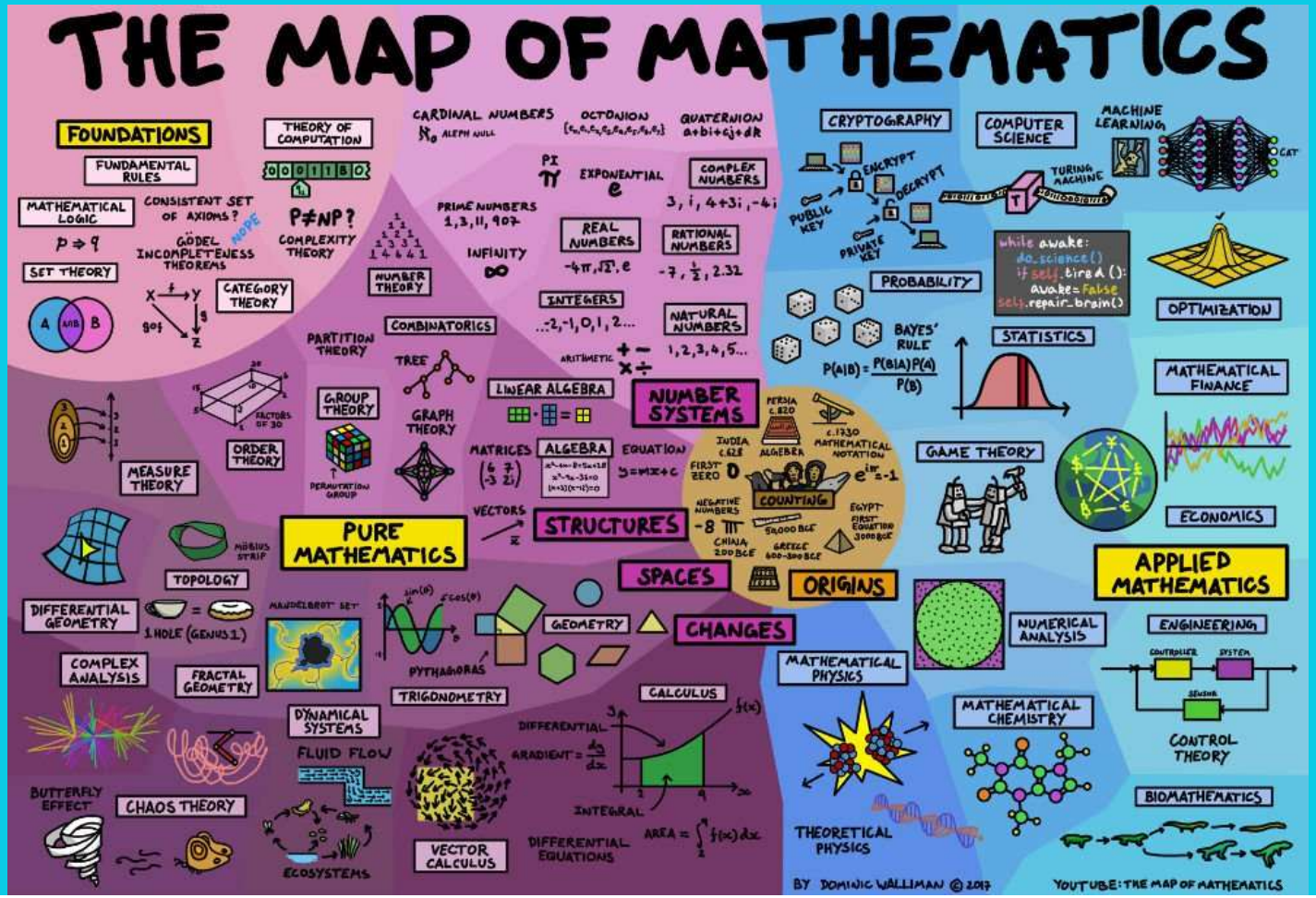


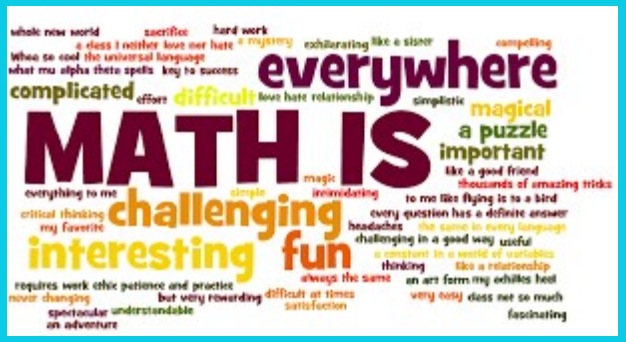






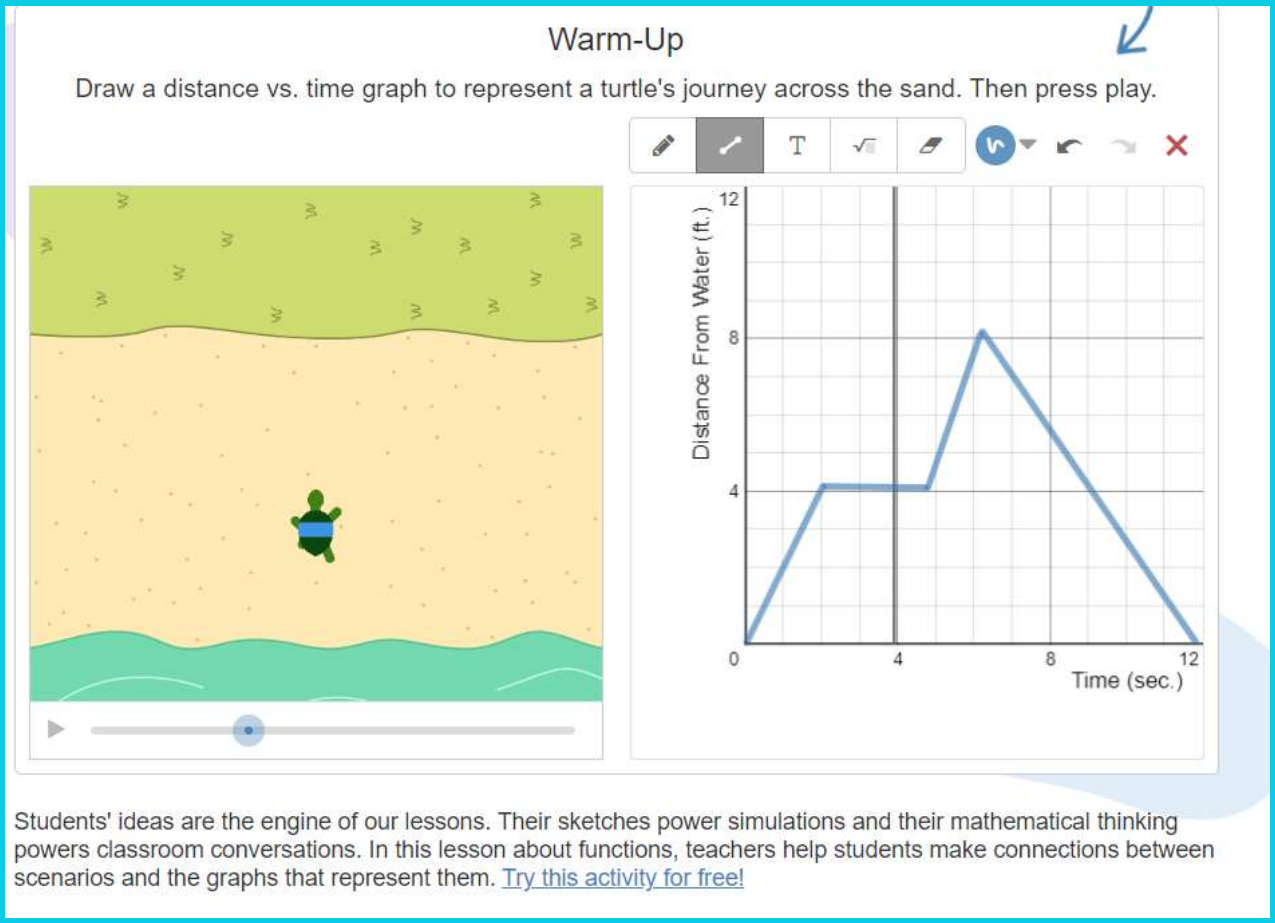
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https://teacher.desmos.com/?lang=pt-BR

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https://euroinvestment-project.eu/games/money-transactions/game2/story.html

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Kahoot! BASIC

European Money Quiz Grand Final - June 2020

European Money Quiz Grand Final - June 2020

3 favorites **361** plays **998** players

A public kahoot

Official quiz for the Grand Final of the 2020 European Money Quiz (EMQ 2020). Do you know how to manage your m... SHOW MORE

EBFmediacentre
Updated 1 year ago

Questions (18)

1 - True or false
Your income level greatly affects your saving habits

2 - True or false
Making a budget is crucial for your financial success

3 - Quiz
What makes for a higher income? Working 40 hours a week at 9.50€ per hour or working 32 hours a week for 12.5€ per hour?

4 - Quiz
What does it mean to be financially literate?

https://create.kahoot.it/details/european-money-quiz-grand-final-june-2020/6751cee5-8e90-4353-932d-a90be97cf6f7

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