

# 12 FB - Mathématiques Complémentaires

Term. (12<sup>th</sup> Grade FB) [3 periods per week]

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## Course Description

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This course is based on problem resolution. That's why Mathematics will be inserted like a tool, where it models and offers some solutions to problems that stem from other disciplines (like Economical sciences) or from the real world.

This approach allows to introduce new topics like differential equation or two variable statistics.

## Timeline

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Each theme will last two to four weeks, depending on the quantity of new skills introduced in the chapter and on the time the students will need to assimilate these new skills. Each lesson will consist of theoretical learning and an important part of practice through exercises in the classroom and at home.

Theme 1 - Models defined by a function of a variable

Theme 2 - Models of evolution

Theme 3 - Historical approach of the Logarithmic Function

Theme 4 - Calculations of Areas

Theme 5 - Distribution of wealth, inequalities

Theme 6 - Bayesian inference

Theme 7 - Repetition of independent experiment; Sampling

Theme 8 - Waiting time

Theme 9 - Correlation and Causality