



WHAT IS ADAPTIV'MATH?

An application developed **within the French Education Ministry AI innovation program (P2IA)** for the mastery of core knowledge in mathematics. **Adaptiv'Math** is an **adaptive learning resource for educational differentiation**, based on the synergy of 3 innovations:



Cognitive Science

to help students master the concept of numbers, operations and fractions by using and going beyond their intuitive knowledge



Artificial Intelligence

designed with the laboratories of INRIA and the University of Sorbonne, to personalise the student's learning path and provide data to the teacher to reinforce the implementation of a differentiated pedagogy



Interfaces & UX

to stimulate the learning of the discipline and the intrinsic motivation of the student

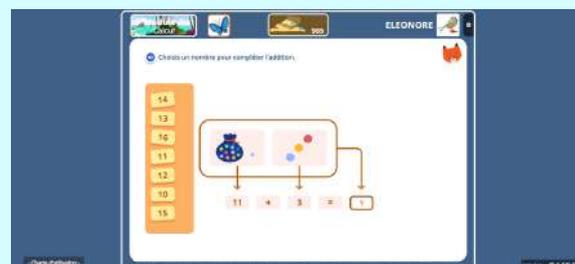
Adaptiv'Math offers a personalised path for each student, drawing on a bank of over **8,000** self-correcting exercises, presented in 5 modules:

Number's Sense (Module 1) which, starting from the innate ability to perceive and process quantities, works on the principles of cardinality, successor, decomposition and position in a variety of exercises that lead the student to compare, position on the number line, order and link symbolic and non-symbolic representations of numbers.

Calculation (Module 2) reinforces the understanding of operations and their properties by systematically switching back and forth between mathematical symbols and object manipulation, and by consolidating key numerical facts through repetition.

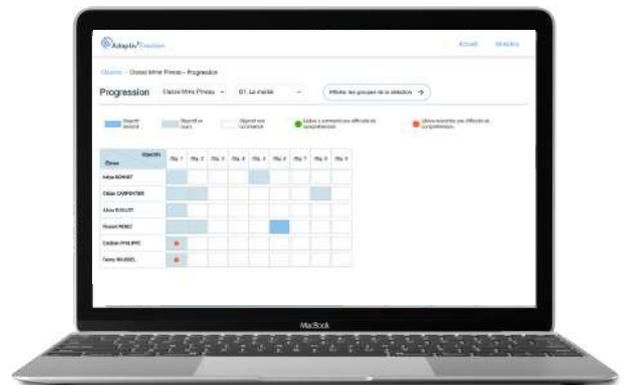
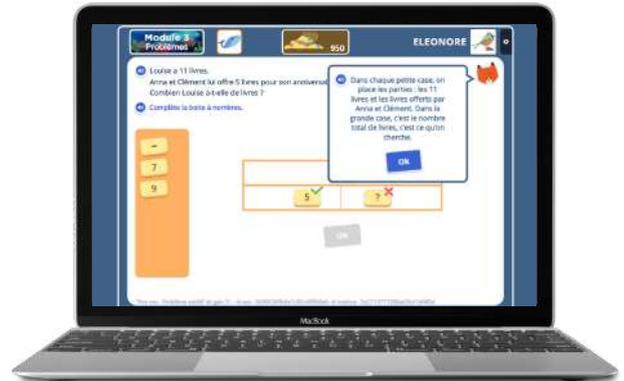
Arithmetic Problem Solving (Module 3) and **Scale and Measurement (Module 4)** approach the four operations based on intuitive scenarios, taken from students' everyday life, designed to enable students to work beyond intuitive knowledge and develop thorough understanding of the four operations.

Fraction, a module that offers a progression from non-symbolic to mathematical representation, through a plural approach to proportionality. Working with proportions from different angles enables students to make connections between fractions, decimals, percentages and probabilities. Students intuitively understand proportion easily through manipulation, producing and comparing ratios.



A digital companion for educational differentiation

- EvidenceB personalisation algorithms continuously adapt **exercise pathways** to each student, allowing them to progress at their own pace
- Our UX learning interfaces are designed with **cognitive researchers to stimulate learning** of core mathematical concepts, **awaken student's intrinsic motivation** and **avoid cognitive overload**
- Our dashboards provide teachers with **useful learning analytics** about class and individual progression, in addition to data about groups of students with similar learning characteristics
- **Self-correcting exercises with explicit feedback** help students understand errors and develop strategies to help them find the correct solution
- **Teachers save time through personalised self-correcting student learning pathways** and valuable information that is easily integrated to teachers' decision-making about differentiation



MATERIALS AND EQUIPMENT:



Suited to individual self-study at school



Students can work on multi-devices (computer and tablet) and pick up their session right where they left off.

CONTACT US

Learn more about Adaptiv'Math on our website: www.adaptivmath.fr



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