

Mathematics for everyone: JUMP Math!

Innovation in mathematics education. Start teaching classes with JUMP Math!







Why a mathematics education course?

The importance of mathematics

- It is applied to many other areas of knowledge: science and technology.
- It is a key tool in the education of young people, favouring a successful future.
- o It helps develop problem-solving competence.







Why a mathematics education course?

Our challenges vis-a-vis the students

- o Making mathematics a lever for positive change in students' lives.
- Enabling all students to discover their potential.
- Counteracting negative attitudes, e.g. "I'm no good at math."
- o Making sure all students enjoy learning math.







Why a mathematics education course?

Our challenges vis-a-vis teachers

- o Allow teachers to develop their maximum pedagogical capacities.
- Train teachers to become agents of social change.
- Help the teacher to be a figure that students remember their whole lives.







The cornerstones of JUMP Math

Scientific research

JUMP Math is based on the latest advances in neuroscience. It takes into account students' cognitive maturation process.

Feasible challenges

It presents small, sequenced challenges everyone can meet, to facilitate abstraction.

Deep understanding

Through gradual, step-bystep learning, enabling students to remember not only the end goal, but the entire process.

Selfconfidence and motivation

It motivates and empowers students, and gets them to fall in love with math.









The pedagogical keys to JUMP Math

Strengthen confidence through regular exercises and mental calculation

Teach complex concepts through a series of simple steps

Minimise texts

Ensure understanding of each concept

Encourage practice through motivating games and challenges

Evaluate continuously

Propose gradual challenges that everyone can tackle

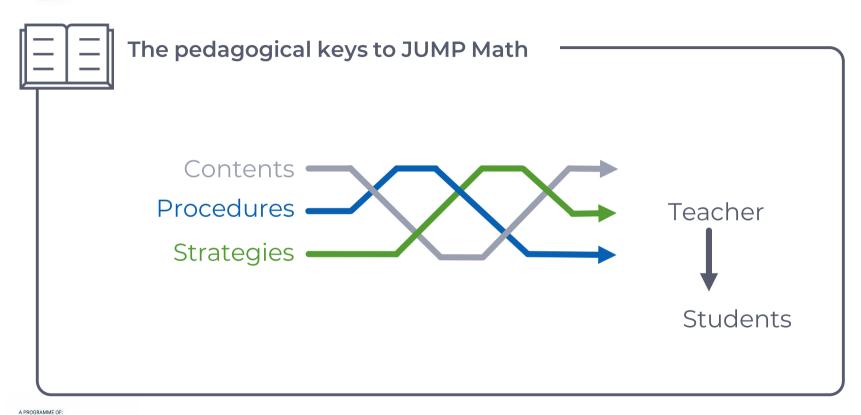
Encourage work with manipulatives, physical objects

Follow appropriate learning sequences















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Online mathematical training programme for teachers

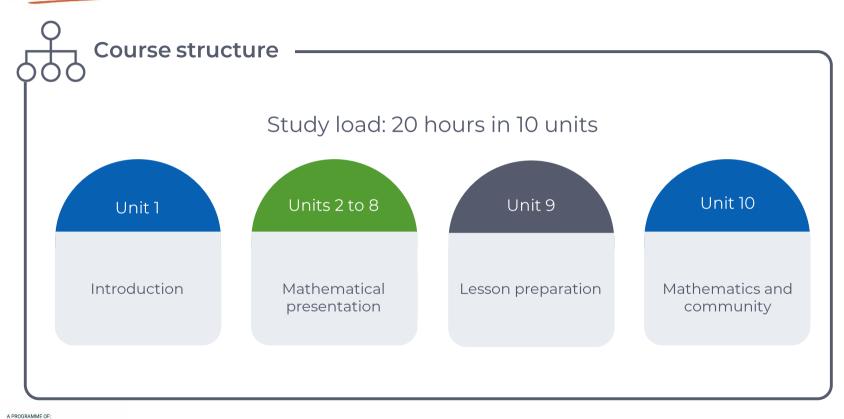
Objective Improve teachers' pedagogical capacities.

Target Primary education teachers.















Unit 1

Introduction

- o The importance of mathematics
- Research in mathematics
- o The importance of the teacher
- o Classroom dynamics





Course structure

Units 2 to 8

Mathematical presentation

Numbering Geometry

Algebra

Problem-solving

Greater learning difficulties: poor forms of teaching

Unclear mathematical reasoning Few connections between concepts

Algorithms only

Great importance assigned to the answers

Memorisation of cases







Course structure

Units 2 to 8

Mathematical presentation

Numbering

Geometry

Algebra

Problem-solving

Unit 2: Decimal numbering system and basic arithmetic operations

Counting, numbering, place value, adding, subtracting, multiplying, and dividing.

Unit 3: Fractions

Concept, writing and comparing, equivalent fractions, adding, subtracting, multiplying and dividing.

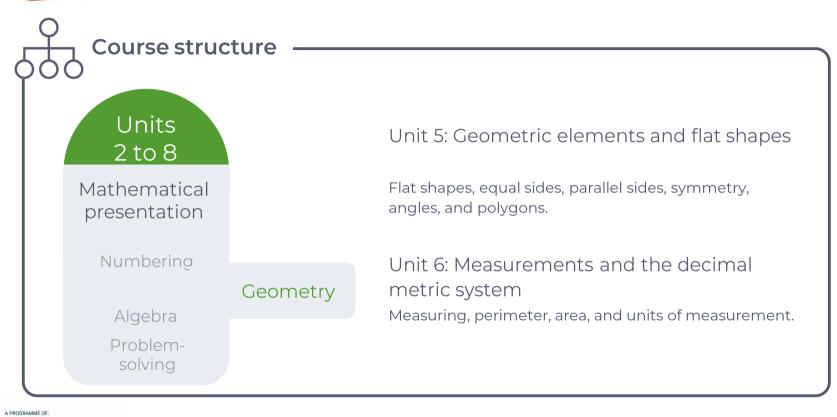
Unit 4: Ratios and numerical proportionality

Ratios and ratio tables, equivalent ratios and percentages.



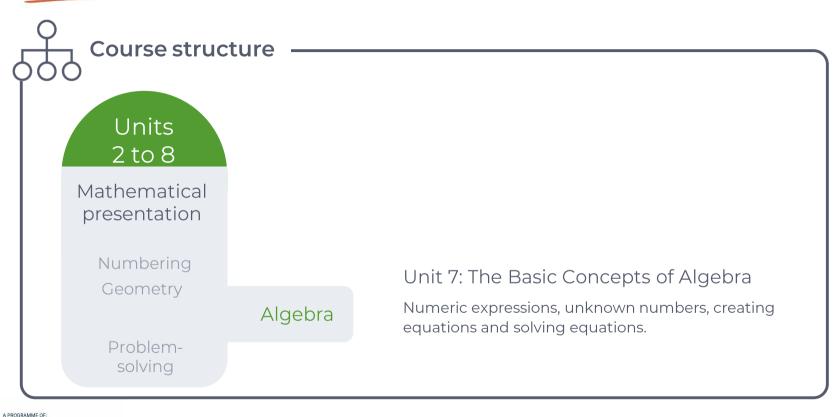


















Course structure

Units 2 to 8

Mathematical presentation

Numbering Geometry Algebra

Problem-solving

Unit 8: Problem-solving Strategies

Understanding problems, using a number line, posing a simpler problem, searching systematically, using tape diagrams and patterns.







Unit 9

Lesson preparation

- o How to plan classes
- How to teach classes
- o How to evaluate continuously and with exams
- o How to accommodate diversity





Course structure

Unit 10

Mathematics and community

- o The teacher's role as the protagonist
- o All students can learn math.
- o Strengthening the school's curriculum
- Mathematics and community





How does it contribute to your work as a teacher?

Development of mathematical thinking

On-going training

Assimilation of problem-solving strategies

The teacher as an agent of change













Be that person they will remember their whole lives!



All students can acquire a mathematical foundation sufficient to confidently tackle challenges.

Complete the course and start teaching with JUMP Math!



