

Teaching mathematics

SUE FORSYTHE: This open course introduces you to some key ideas for teaching mathematics to 8- to 14-year-olds. You may already teach mathematics, but want to improve your professional knowledge. Or perhaps you're a teaching assistant or a homeschooler or maybe a parent who wants to know more about how maths is taught in schools. This is a badged course. The badge gives you recognition for your achievements. The course is in eight weeks, each looking at a suitable topic for 8- to 14-year-olds, from number to algebra to shape to probability.

CHARLOTTE WEBB: As well as refreshing your mathematics, you will learn about the key theories that underpin the learning of these topics. This includes how learners access important concepts, how children progress in their understanding-

CATHY SMITH: -what the common misconceptions are, and the small steps that challenge learners. In each unit, you'll work through mathematical activities that can be used in your own classroom.

CHARLOTTE WEBB: You'll read about learning, try some mathematics, and consider effective approaches to facilitate mathematics learning.

CATHY SMITH: The course shows you where to find free existing online resource banks.

SUE FORSYTHE: We wrote this course drawing on our experience in the classroom teaching mathematics and from our work in teacher education. You can use it with your school colleagues or follow it by yourself, checking your understanding with the regular quizzes. Good luck with your studies.