



maths and science for life

TEACHER
TRAINING
STARTING IN
AUTUMN
2014

contact

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mascil means ...

... mathematics and science for life.

mascil aims to ...

... foster a teaching culture in which real-life contents from the world of work engage students to pose questions, explore phenomena and develop inquiring minds, thus enabling them to manage future challenges.

... promote a widespread use of inquiry-based learning (IBL) in mathematics and science in primary and secondary schools.

... establish a connection between mathematics and science education and the world of work.

mascil offers ...

... professional development for teachers and teacher educators starting in autumn 2014.

... free- to-use classroom material fostering inquiry-based learning in connection to the world of work.

... support for teachers' European-wide networking with an e-learning and a communication platform.

For more information about the mascil offers see:

www.mascil-project.eu

mascil cooperates ...

... with companies, primary, secondary and vocational schools, as well as school authorities and regional advising boards.

mascil organises ...

... professional development for educators, but also inquiry-based learning events for parents and students that connect schooling with the world of work.

mascil researches ...

... the impact of professional development and other dissemination strategies on teaching practice in different European countries.

mascil partners are from ...

... universities, research centres, training and educational centres in Austria, Bulgaria, the Czech Republic, Cyprus, Germany, Great Britain, Greece, Lithuania, the Netherlands, Norway, Romania, Spain and Turkey.

mascil is coordinated by ...

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Inquiry-based learning connected to the world of work: preparing students for active citizenship and lifelong learning

② **role:** students get engaged in authentic problem solving

③ **context:** tasks are set in rich vocational contexts, they are open and allow multiple problem solving strategies

④ **role:** teachers value student reasoning, incorporate young people's experiences and motivate their classes by connecting the present (school) with the future (work)

① **activity:** in a simulated occupational setting, students do actual or comparable tasks like those found in the world of work

⑦ **activity:** the outcome is a product for an audience to use

⑤ **product:** purposeful tasks ask for products that illustrate the utility of maths and science concepts

⑥ **role:** in the classroom, students explain phenomena, reflect on results and processes, make open-minded and dialogic contributions, and their mistakes are valued



Illustration by Matthias Kulcke