



## Module 10

INTERCULTURAL MATHEMATICS LEARNING OUTSIDE OF SCHOOL









This worksheet is based on the work within the project Intercultural learning in mathematics and science education (IncluSMe). Coordination: Prof. Dr. Katja Maaß, International Centre for STEM Education (ICSE) at the University of Education Freiburg, Germany. Partners: University of Nicosia, Cyprus; University of Hradec Králové, Czech Republic; University of Jaen, Spain; National and Kapodistrian University of Athens, Greece; Vilnius University, Lithuania; University of Malta, Malta; Utrecht University, Netherlands; Norwegian University of Science and Technology, Norway; Jönköping University, Sweden; Constantine the Philosopher University, Slovakia.

The project Intercultural learning in mathematics and science education (IncluSMe) has received co-funding by the Erasmus+ programme of the European Union under grant no. 2016-1-DE01-KA203-002910. Neither the European Union/European Commission nor the project's national funding agency DAAD are responsible for the content or liable for any losses or damage resulting of the use of these resources.

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Constantine the Philosopher University in Nitra

Co-funded by the Erasmus+ Programme of the European Union







Movie is online available at: <u>https://www.youtube.com/watch?v=vTYPLY1dYYk&t=</u>





## II. Education program Architects under pedagogical supervision. Activity 2.1: Pedagogical approaches applied Work in groups, group 20 min discussion Work in groups. Creation the conceptual map explaining the pedagogical approaches used in the education program Architects. The basic common level of conceptual map is the title of education program Architects. Based on this common starting point choose other levels which present educational approaches used in the program (e.g. work in groups, role playing, outdoor education, out of school education, IBL, ICT). II. Education program Architects under pedagogical supervision. Activity 2.2: Development of key competences Work in groups, group 20 min discussion Work in groups and fill in the worksheet. Define which concrete knowledge and skills are developed in the area of mathematics and science in each methodical step of the program Architects. Fill in only columns Math and Science. At the end each group presents its notes and remarks to each methodical step of the education program.







## Worksheet:

	Methodical steps	Math	Science	Intercultural
		- knowledge, skills	- knowledge, skills	dimension
		(Activity 2.2)	(Activity 2.2)	(Activity 3.1)
1	Setting the task and discussion			
2	Selection of area of interest and its analysis			
3	Definition of aims and criteria of proposals			
4	Selection of potential playing elements			
5	Creation of the future map			
6	Creation of the project budget			







• Try to describe how the intercultural approach would influence each methodical step of the education program.

## Intercultural approach can be understood as two different levels:

- The first presents the case when the education program is realized in multicultural environment (pupils come from different cultures e.g. gypsies or other national minorities, refugees etc.).
- The second level presents the case when children's playground is planned for multicultural target group.

