

ScienceMath – The Teacher’s Professional Development
Ljubljana 23th – 28th August 2009

Programme

Sunday 23th August

Arrival of the Participants for Teacher’s Professional Development

All the sessions/meetings will be held in the room 4.c at the second floor of the *Diocesan Classical Gymnasium at St. Stanislav’s Institution*, Zavod sv. Stanislava, Štula 23, 1210 Ljubljana, Slovenia - EU

Monday 24th August

Time	Approx.	Session	Theme
8-12	15 min	Presentation	Welcome, Introduction
	45 min	Presentation	ScienceMath project presentation: Aims and Results
	30 min	Discussion	Participants introduce themselves
	15 min	Coffee	
	120 min	Presentation	Calculus; from physics ...
12-14	Lunch		
14-17	180 min	Workshop	... towards mathematics
17-	Visit to the Ljubljana downtown		

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Tuesday 25th August

Time	Approx.	Session	Theme
8-12	30 min	Presentation	Functions and Sounds
	60 min	Workshop	Functional relations Part 1: Introduction and trying the material - a
	15 min		Coffee
	120 min		Functional relations Part 1: Introduction and trying the material - b
12-14			Lunch
14-17	60 min	Workshop	Nutrition Circle, Proportions: Similarity and Allometry
	15 min		Coffee
	90 min	Workshop	Creating interdisciplinary lessons between math and science; Part 1
17-			Free

Wednesday 26th August

Time	Approx.	Session	Theme
8-12	60 min	Presentation	Experiments and concept of variable
	90 min	Workshop	Functional relations Part 2: Creating own worksheets
	15 min		Coffee
	60 min	Workshop	Creating interdisciplinary lessons between math and science; Part 2
12-14			Lunch
14-20 (or 13 - 20)	360 min	Excursion (Workshop)	Measurements in real world – field work incorporated into science teaching (tourist) excursion

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Thursday 27th August

Time	Approx.	Session	Theme
8-12	30 min	Presentation	Concept of parallelism and concept of gravity
	45 min	Presentation	Fermat meets Pythagoras and Fermat’s Principle
	30 min	Presentation	Parabola and Technology
	15 min	Coffee	
	30 min	Presentation	Students’ discussions about mathematics and society: Modelling population growth.
	60 min	Workshop	Functional relations Part 3: Discussing the module
12-14	Lunch		
14-17	90 min	Workshop	Arithmetic mean and car differential
	15 min	Coffee	
	60 min	Presentation	Logarithms
17-	Typical Slovenian dinner		

Friday 28th August

Time	Approx.	Session	Theme
	30 min	Presentation	Modelling motion: the case of shooting in water
	60 min	Presentation	From coupled pendulum toward Fourier analyses
8-12	15 min	Coffee	
	90 min	Discussion	Final discussion
	30 min	Conclusion and farewell	