

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	Presenter/Moderator
8-12	15 min	Presentation	Welcome, Introduction	ScienceMath team
	45 min	Presentation	ScienceMath project presentation: Aims and Results	Astrid Beckmann
	30 min	Discussion	Participants introduce themselves	ScienceMath team
	15 min	Coffee		
	120 min	Presentation	Calculus; from physics ...	Tine Golež
12-14	Lunch			
14-17	180 min	Workshop	... towards mathematics	Tine Golež, Marina Rugelj
17-	Visit to the Ljubljana downtown			

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Tuesday 25th August

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

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Wednesday 26th August

Time	Approx.	Session	Theme	Presenter/Moderator
8-12	60 min	Presentation	Experiments and concept of variable	Simon Zell
	90 min	Workshop	Functional relations Part 2: Creating own worksheets	Astrid Beckmann
	15 min	Coffee		
	60 min	Workshop	Creating interdisciplinary lessons between math and science; Part 2	Simon Zell
12-14	Lunch			
14-20 (or 13 - 20)	360 min	Excursion (Workshop)	Measurements in real world – field work incorporated into science teaching (tourist) excursion	Marina Rugelj, Tine Golež, Damjan Kobal

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Thursday 27th August

Time	Approx.	Session	Theme	Presenter/Moderator
8-12	30 min	Presentation	Concept of parallelism and concept of gravity	Astrid Beckmann
	45 min	Presentation	Fermat meets Pythagoras and Fermat's Principle	Simon Zell
	30 min	Presentation	Parabola and Technology	Damjan Kobal
	15 min	Coffee		
	30 min	Presentation	Students' discussions about mathematics and society: Modelling population growth.	Jan Alexis Nielsen
	60 min	Workshop	Functional relations Part 3: Discussing the module	Astrid Beckmann
12-14	Lunch			
14-17	90 min	Workshop	Arithmetic mean and car differential	Damjan Kobal
	15 min	Coffee		
	60 min	Presentation	Logarithms	Marina Rugelj
17-	Typical Slovenian dinner			

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Friday 28th August

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