

Detailed planning of the lesson

Duration	Phases	Focus	Social forms / Methods	Equipment / Materials	The learning process
Lesson one					
15'	Getting started	Conjecture	Plenary session Individual work	M1 & M2	Students... ... know the definition of a conjecture. ... can read and interpret a mathematical statement. ... can produce several examples from a given example.
30'	Work phase I	Examples and conjectures	Working in small groups	M1 & M2 Paper and/or tablets	Students... ... can produce several examples from a given example. ... know how to put together their individual examples. ... know how to formulate a mathematical conjecture based on examples.
Second hour of teaching					
35'	Work phase II	Proof	Working in small groups	M1 & M2 Paper and/or tablets	Students... ... know how to reason about a mathematical problem. ... are making their first attempts at formulating evidence.
10'	Conclusion	Various conjectures	Plenary session	M1 & M2	Students... ... see different types of conjectures. ... value and understand the need for mathematical proof.
Third hour of teaching					
10'	Correction	Correction of worksheets	Working individually or in small groups	M1 & M2	Students... ... reread their work. ... evaluate their mistakes and the quality of their writing.
10'	Getting started	Conjecture	Individual work	M1 & M2	Students... ... know the definition of a conjecture. ... can read and interpret a mathematical statement. ... can produce several examples from a given example.
25'	Work phase I	Examples and conjectures	Working in small groups	M1 & M2	Students... ... can produce several examples from a given example.

				Paper and/or tablets	... know how to put together their individual examples. ... know how to formulate a mathematical conjecture based on examples.
Fourth hour of teaching					
35'	Work phase II	Proof	Working in small groups	M1 & M2 Paper and/or tablets	Students... ... know how to reason about a mathematical problem. ... are making their first attempts at formulating evidence. ... discover the concept of a counterexample.
10'	Conclusion	Various conjectures	Plenary session	M1 & M2	Students... ... see different types of conjectures. ... value and understand the need for mathematical proof.
Fifth and sixth teaching hours					
(Plan identical to 3rd and 4th hour)					
Seventh (Fifth) teaching hour					
10'	Correction	Correction of worksheets	Working individually or in small groups	M1 & M2	Students... ... reread their work. ... evaluate their mistakes and the quality of their writing.
5'	Setup	Setup	Setup of groups	Chairs benches	/
18'	Phase I	Interpreting mathematical statements	Working in groups	M3	Students... ... analyse mathematical statements. ... apply their knowledge from previous lessons to assess the truth of a statement. ... formulate a conclusion.
7'	Phase II	Oral presentation	Working in groups	M3	Students... ... present their findings. ... listen actively and ask questions. ... make connections between their work and that of other groups.

5'	Closure	Mathematical vocabulary	Plenary session	M3	Students... ... present their findings. ... review what they have learned.
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