

Visual Mathematics in Practice



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Theme of the lesson:	Complex Numbers – definition, operations, interpretation
Place in curriculum: (type of school, grade)	Grammar School, 2nd grade
Age of the students/pupils:	16 years
Title of the lesson:	Complex Numbers

Description of the lesson

Time	Exercises, matters, parts of the lesson	Methods and forms of student activities	Developable competencies
10 min	<i>Brainstorming – exercises, square roots, when is it possible to order the square root</i>	<i>Work in groups – trimino</i>	<i>Math.thinking Problem posing and solving</i>
15 mins	<i>Watching the video – Dimensions Chapter 5 –Complex Numbers</i>	<i>Watching the video</i>	<i>Modelling, Representation</i>
20 mins	<i>Short discussion, solving exercises on worksheets</i>	<i>Work in pairs</i>	<i>Symbols and formalism</i>
5 mins	<i>Revision, homeworks</i>		<i>Reasoning and proof</i>

Summary

In the first part of the lesson the students solved the trimino in groups. These triangles had simple

quadratic equations and their solutions on t he each side. Their aim was to create a good bigger triangle where the common sides belong together. The students loved this game – it can be used also as a revision. They enjoyed watching the video, later we discussed about it, and in the main part of the lesson we solved exercises (operations with complex numbers). It think the lesson is more successful because of visualized materials. If they see something, it is memorisable for them.

Supplements

Used materials:	<i>Workbook, student book, video material (Dimensions – Complex numbers)</i>
Photos:	<i>I didn't make photographs unfortunately...</i>