

EDUCATION SECTOR	SUBJECT(S)	THE LEARNING EXPERIENCE	ADDED VALUE FOR TEACHING
HIGH school (Italy): Technical Institute	MATHEMATICS Polynomials	<p>PODCAST: POLYNOMIALS</p> <ul style="list-style-type: none"> • <i>Students involved (number, age, characteristics...)</i> <p>21 high school students, including 1 foreign student and 1 with dyslexia. Age: 15-16 years (first class)</p> <ul style="list-style-type: none"> • <i>Learning Objectives</i> <p>To acquire a correct terminology Knowing the rules of operations between polynomials Knowing polynomial products and functions Familiarize with the functions of the Garageband software (to realize podcast - Apple)</p> <ul style="list-style-type: none"> • <i>Overall duration</i> <p>About 6 hours</p> <ul style="list-style-type: none"> • <i>Temporal progression of activities</i> <p>Students must produce a podcast on polynomials. The activity will include:</p> <ol style="list-style-type: none"> 1) lecture (1 hour) to provide operational instructions about the activities 2) collaborative work: the students divided into pairs surf various sites proposed by the teacher to get the information and illustrations necessary, finally, preparing the material necessary to record the podcast (2 hours) 3) recording and editing audio podcast. The work is organized and shared on the IWB (1,5 hour) 4) adding a selection of images related to text. The work is organized and shared on the IWB with the whole class; students interact directly to the IWB, alternating (1,5 hours). <ul style="list-style-type: none"> • <i>Expected outcomes and products</i> <p>A podcast about polynomials. Cooperation and teamwork Familiarize with the IWB and with a podcast software</p>	<p>The IWB can improve attention, understanding, learning and exposure of the contents</p> <ul style="list-style-type: none"> - make activities of cooperative learning easier <p>The IWB will be used to compose together with the students an outline of work and then to follow all the phases of the assembly of an 'increased' podcast.</p> <p>The IWB allows to gather and present the results found in group activities, and to share the work that will be carried out with the whole class. This allows a metacognitive reflection on the work.</p>

	<p>METHODOLOGY</p> <p><i>Indicate the teaching methodology and how you intend to use the IWB. Specify: What does the teacher? What do the students?</i></p> <p>Lecture followed by group work with collaborative learning.</p> <p>The teacher on the IWB proposes a work plan, explains the use of software, selects the internet sites, organizes and supervises the work of students.</p> <p>Students work collaboratively to:</p> <ul style="list-style-type: none"> - Get the information and illustrations - Select the materials and write the texts to recorder - Learn to use the Garageband software - Share a work plan - Create a podcast by selecting the most appropriate method and materials - testing the podcast - Assess the podcast - Assess the activities carried out 	
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