

**Common Teaching Unit plan  
(structure and contents)**

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<b>Name of school</b>	IPSAA M.e T. Bellini – Trecenta (RO)
<b>Theme of the lesson</b>	Straight line whit Geogebra
<b>Pupils' age range</b>	16 – 17 (3th class in our school)
<b>Timeline</b>	4 hours in March 2018 (part I) + 2 hours in October 2018 (part II)
<b>Objectives</b>	<ol style="list-style-type: none"> <li>1. Learn the main istructions App Geogebra.</li> <li>2. Build some" Sliders" to show a general straight line in the cartesian Diagram.</li> <li>3. Find the coordinates of the point of intersection of two lines.</li> <li>4. Improve the ability to analyse and solve problems in a real situation with the mathematic models.</li> <li>5. Use App Camstudio to record a lesson.</li> </ol>
<b>methods</b>	<p style="text-align: center;"><b>Part I (Geogebra Apps)</b></p> <ol style="list-style-type: none"> <li>1. The teacher explains the main Geogebra's statement for drawing lines into the cartesian Diagram and shows steps to build a "Slider" .</li> <li>2. The students use their new knowledge about Geogebra in order to solve exercises that the teacher gives them. Finally, the students have to use the Geogebra's tools for finding the coordinates of the point of intersection of two lines.</li> </ol> <p style="text-align: center;"><b>Part II (Geogebra Apps + Camstudio Apps)</b></p> <p>The teacher presents Camstudio, an App for making video. The teacher shows how to record a Geogebra lesson using Camstudio. After it, the students will manage to make a video. The video will be a recording of the lesson about lines with Geogebra.</p> <p>They will give their teacher their opinions about working with Apps: Geogebra e Camstudio. (feedback)</p>
<b>Materials</b>	Computers, smartphones and tablets
<b>Used Apps</b>	Geogebra, Camstudio

<b>Assessment</b>	Written test. Group work.
<b>Remarks</b>	The teacher will coordinate his students in every step of their activity. He will encourage students to work correctly in groups.