

Project-TEMP Intervention ‘Recipe’

Developing Team:

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Mathematical Concept(s):	The medians’ intersection in a triangle
Digital Tool:	GeoGebra resources
Preparation Time:	10 minutes
Lesson Time:	30 minutes

Purpose (Why do this intervention?)

Potential Outcomes for students and teachers:

Students will be able to discover the properties of the medians’ intersection in a triangle and learn the property of a weight centre in a triangle.

Recorded Benefits for students and teachers:

Students will visualize better the medians’ intersection of a triangle, acquire the property of a weight centre in a triangle and apply the knowledge in other problems.

Process (A step by step ‘how to’ implementation of this intervention)

Teacher ‘How to’

- Review the notion of median in a triangle and the notion of the middle line in a triangle: teacher presents the old Geogebra resources for this concepts.
- Define the notion of a weight centre in a triangle
- Presents a Geogebra resource with a weight centre
- Leads the students in a step by step demonstration about property of the weight centre.

Student ‘How to’

- Students notice and visualize the medians’ intersection point in a triangle.
 - Students discover the property of the weight centre in a triangle.
 - Students modify dynamically the triangle parameters and observe the weight centre point in new cases.
 - Students build a demonstration for acquiring the weight centre in a triangle, using the teacher’ remarks.
- In their notebooks, students must write the full demonstration of the medians’ intersection in a triangle.*

Products (If applied what will the successful intervention look like?)

The teacher’s job would be easier if he uses old and recent Geogebra resources. He can use the same resource for different parameters of triangle’ angles in a short time. The visualization of medians in different cases will facilitate the understanding of the weight centre. Most of the students would demonstrate easily step by step the property for this special point in a triangle.