GeoGebra Applications Workshops

Geometry / Algebra / Calculus

A GeoGebra Applications Workshop is a follow-up workshop that lasts half a day (3 hours) and covers possible applications of GeoGebra for teaching topics in geometry, algebra, and calculus. The workshop topics are flexible and can be chosen according to the needs of the participating teachers (e.g. middle school content, geometry only, algebra only, etc.).
Every topic provides a pool of related activities and tasks allowing for additional practice blocks to be inserted into the workshop schedule.

Therefore, the GeoGebra workshops at your site can cover up to two full days:

- Day 1: **GeoGebra Introductory Workshop** (6 hours)
- Day 2: One or two **GeoGebra Applications Workshops** (3 hours each)

Examples for GeoGebra Application Workshops

Example 1: Middle School Applications

	Topics	Length	Content
1	**Triangle centers and similarity**	30 min	Triangle constructions and Euler line
2	**Transformations / tessellations**	30 min	Using transformations to create tesselations
P	**Practice block**	30 min	Pool of tasks related to the selected topics
3	**Area formulas**	30 min	Visualizing area formulas for quadrilaterals
4	**Linear equations**	30 min	Parameters and systems of linear equations
P	**Practice block**	30 min	Pool of tasks related to the selected topics

Example 2: High School Applications

	Topics	Length	Content
1	**Geometric proofs**	30 min	Visualization of geometric proofs
2	**Linear and quadratic equations**	30 min	Parameters of linear and quadratic equations
P	**Practice block**	30 min	Pool of tasks related to the selected topics
3	**Domain and range of functions**	30 min	Discovering domain and range
4	**Slope function and derivatives**	30 min	Introducing derivatives to students
P	**Practice block**	30 min	Pool of tasks related to the selected topics

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