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From the concept of area to area-preserving transformations: reflections and proposals for teaching activities. (Dal concetto di area, alle trasformazioni che la conservano: riflessioni e proposte per attività con studenti.)

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Summary: This contribution describes some teaching experiments with students in the first two years of High School, focusing on the concept of equivalence. The goal was to construct polygons which were equivalent according to the Euclidean setting, and then translate the constructions in the language of transformations, in particular using shears.

Classification: G54 G44 D84 D44

Keywords: concept of equivalence; geometric transformations; constructing polygons; shear mapping; teaching units; upper secondary