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Hands-On-Heads-On Activities for the Discovery of Mathematics in Elementary Schools

I will share two activities that I enjoy taking to elementary schools to engage students in mathematical thinking. The first activity is a playful exploration of polygons and polyhedral that culminates in the development of Euler's Formula, which relates the number of surfaces, vertices, and edges in a polyhedron. The second activity is an exploration of Steiner's Tree Problem, namely to find the shortest path connecting a given set of points.