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Non-Euclidean Adventures On The LÃ©nÃirt Sphere

Non-Euclidean Adventures on the
LÉNÁRT SPHERE
By István Lénárt

Activities Comparing Planar and Spherical Geometry
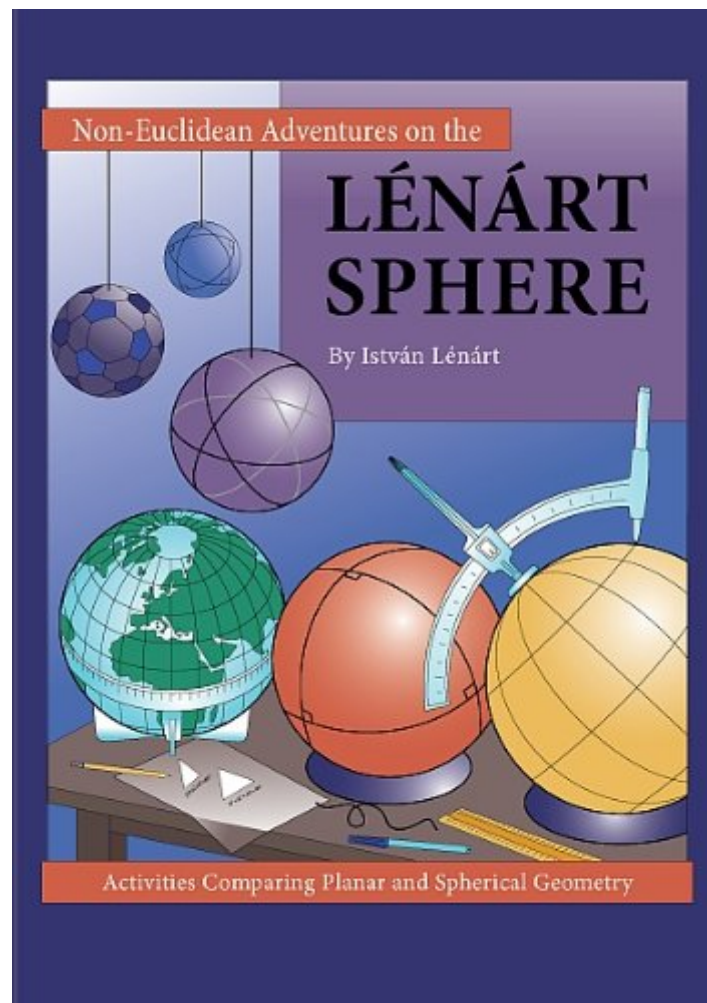
Synopsis

The high school geometry curriculum is primarily based on Euclidean concepts and constructions. Often, non-Euclidean ideas appear in high school geometry books as topological curiosities or historical asides, relegated to footnotes or visual activity boxes. Students are asked to consider these ideas only briefly if at all. Rarely is non-Euclidean geometry handled with the same depth or rigor that is used to study plane geometry. Even rarer are instances of non-Euclidean exploration with manipulatives.This book is a collection of comparative geometry activities â " or adventures â " for students. Most of the adventures deal with the basic concepts of spherical geometry, such as points, lines, circles, distance, angle, and area. These concepts are compared and contrasted with the corresponding ideas of elementary plane geometry.The adventures are presented in two forms to accommodate two different learning styles. First each adventure is succinctly described on an Adventure Card as an unguided investigation in which students determine their own paths of exploration. Then the same adventure is repeated in the more structured Studentâ ™s Guide with step-by-step constructions, guided investigations, and questions for further exploration. Following the Studentâ ™s Guide is the Teacherâ ™s Guide with solutions and hints.

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Customer Reviews

This is a great book if you have the manipulative that accompany it. I'm not sure how useful it would be on its own. I bought it because I'm working on my MA in education. In the past I used the whole thing and loved it. I gave it all away and realized I'd like the book as a reference.

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