

Project Ideas from this Material

1) Exploration of Polyhedra via #s of faces
What Polygons fold into Polyhedra?

2) Helly's Theorem in Non Euclidean
Spaces: The Projective Plane
The Flat Torus

3) Expository Project on Voronoi Diagrams,
Penrose Tilings + Quasi Crystals

ref. Geometry of Quasi Crystals by
M. Senechal

4) Tropical Geometry

Where does this material fit into course work?

- 1) Senior Seminar
 - 2) Reading Project in History of Math
 - 3) Courses for Non-Majors: Sperner's Lemma + Cake Cutting apps.
 - 4) Math Circles.
 - 5) Problem Solving Sessions
 - 6) Undergraduate Conferences
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How To Attract More Students?

- 1) Rhodes College: "After Math"
Friday Pizza + Problems.
- 2) Posting weekly Problems with
Cumulative Scores, points increase
as semester progresses
- 3) Bribes: Cash Prizes
Food.
Movie Tickets
- 4) Post problems in Student Paper.