Bundle 5 Articles and Refs Quicklist

TIAN Bundle 5 Articles and References (For Teachers) about Geometric Thinking

About van Hiele:

- Mason, M. (n.d.) Van Hiele Levels of Geometric Reasoning. Provides some concrete examples of various levels of the van Hiele model.
- Woleck, K.R. (2003). Tricky Triangles: A Tale of One, Two, Three Researchers in Teaching Children Mathematics, (10)1, 40-44. While the researchers focus on first grade, the article illustrates the sort of thinking at van Hiele's lowest level of geometry.

About Triangles:

- Reynolds, M.J. (2002). Letting the Cat out of the Bag….to Make Room for a Triangle in Mathematics Teacher, (95)1, 6-7. An interesting activity to introduce the idea of congruence – having groups of students figure out the shape of a triangle in a bag.

About Perimeter and Area:

- Pagni, D.L. (2006). Finding Areas on Dot Paper in Mathematics Teaching in the Middle School, (12)5, 274-278. Students using dot paper to find the area of rectangles, triangles, parallelograms, and trapezoids readily see how the various formulas were derived. Sample worksheets are included.

Other:

- Tepper, A.B. (1999). A Journey through Geometry: Designing a City Park in Teaching Children Mathematics, 348-352. The description of an integrated curriculum project that would be applicable to students of all ages.
- Morris, B. (2004). The Beauty of Geometry in Mathematics Teaching in the Middle School, (9)7, 358-361. A hands-on project that allows students to be creative while learning the vocabulary of geometry.