

Year	Development	Grade	Overview
1999	Polygons	Grades 9-12, Geometry	Students will investigate certain websites to access information about polygons. The lesson includes definitions of parts and types of polygons, as well as formulas for finding the sum of interior and exterior angles and the individual interior and exterior angles of a regular polygon. Students will access JAVA applets for an interactive discovery approach to some topics. Students will take a quiz posted on the Internet. Lastly, students will complete a website scavenger hunt, which highlights uses of polygons.
1999	Sports Statistics in the Classroom	Grades 9-12, Algebra II, Computer Technology, Statistics	Many people are fascinated with sports statistics. Many times, their fascination ranges among the way football experts rate quarterbacks to the way players and teams are compared to each other. In this unit, students will compute/compile many of the statistics they see in their local newspapers and on Internet websites. They will then use descriptive/comparative statistics to compare players and teams based on the statistics they computed/compiled earlier. Hopefully, students will gain a better understanding of everyday sports statistics and their real-world applications, as well as a greater appreciation for statistics.
1999	The Ins and Outs of Polygons	Grades 8-12, Geometry	The student will find the sum of both interior and exterior angles of polygons, the measure of each interior and exterior angle of regular polygons, and will be introduced to tessellations.
1999	Using Right Triangles	Grades 7-12, Geometry	The students will be able to apply the use of the Pythagorean Theorem and special right triangles to answer questions based on data collected from the Internet.
1997	Life or Death on the Net	Grades 8-12	This is an introductory lesson to use the Internet for researching information about a mathematician whose date of birth/date of death matches or is in close proximity of a student's date of birth. During their research, the students are required to find information for a birth certificate, map of birthplace, silhouette or picture, time-line, obituary, epitaph, brief history of work, and a characteristic that makes the mathematician unique.
1997	Moving On ... Up!	Grades 6-12, Pre-Algebra, Applied Math	In today's global society, mobility is often essential to achieve economic security. Many factors should be considered before relocating. This lesson will require the student to use the Internet, as well as other resources to gather information which is crucial to this decision making process.

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1997	<u>The History of Mathematics: An Internet Approach</u>	Grades 9-12	This unit is designed to be an enrichment project in Pre-Calculus, but could apply at almost any secondary level. Students will use school-provided Internet access to browse World Wide Web sites pertaining to the history of mathematics. The project is subdivided into two parts: 1. Learning to Explore, and 2. Surveying the People and Topics. An addendum, Women and African-Americans is available as an extension activity. Each subdivision, and the addendum, can be utilized as a stand-alone investigation. The emphasis is on surveying available Internet resources pertaining to the history of mathematics. Several activities are included, but the teacher should feel free to utilize these resources in any way that will satisfy the needs of the particular class. The Internet resources included are appropriate for development of an interdisciplinary unit, possibly with social studies or English instructors.
1995	<u>Creating a Home Page--Gateway to the Information Superhighway</u>	Elementary - Adult	The presence of the INTERNET is a reality in our lives. The World Wide Web (the graphicsrich portion of the INTERNET) is the fastest-growing segment. It is important for students and teachers to be literate in this new technology. Because people learn best by doing, actually authoring a home page is an excellent way to gain an understanding of the structure and power of the World Wide Web.
1995	<u>Finding and Analyzing Weather Data Using the Internet</u>	Elementary - Adult	The presence of the INTERNET is a reality in our lives. The World Wide Web (the graphicsrich portion of the INTERNET) is the fastest-growing segment. It is important for students and teachers to be literate in this new technology. Because people learn best by doing, actually authoring a home page is an excellent way to gain an understanding of the structure and power of the World Wide Web.