Starting Points

Chaos—Newton's Square Root Algorithm

- Software: Excel® /AppleWorks®
- Adopted from: *Newton's Method for Square Root: A spreadsheet investigation and Extension into Chaos* by Sharon Dugdale, Mathematics Teacher, October 1998
- Also see: *Chaotic Behavior in the Classroom*, Mathematics Teacher, Feb. 2000

Proofs in Logic

- Software: Geometer Sketchpad®—also Word® and AppleWorks® provided *text boxes* are used.
- Adopted from: *Technology Tips* by Al Coons, Mathematics Teacher Feb. 2000, p. 156

Make your own Clipart!

- Software: Geometer Sketchpad®

Locus of Points

- Software: Geometer Sketchpad®
- Adopted from: *Exploring the Locus Definitions of the Conic Sections* by Eugene A. Olmsead, Mathematics Teacher May 1998.

A Treasure Hunt using Locus Definitions

- Software: Geometer Sketchpad®
- Adopted from: Idea heard in a discussion with a colleague.

Topic: Parametric Color, Loci & Random Wandering

- Software: Geometer Sketchpad®
- Adopted from: Original Idea

Spreadsheet Sliders

- Software: Excel®, Sorry AppleWorks® doesn't have this feature.
- Adopted from: *Spreadsheet Sliders as new graphing tools.* Presented by Sergei Abramovich and Rory Szwed, NCTM Chicago 2000
- Also see: *Making Sense of Slope*, Mathematics Teacher Feb. 2000, p. 114

Topic: Parametric Color, Loci & Random Wandering

- Software: Geometer Sketchpad®
- Adopted from: Original Idea

Sliders in Sketchpad

- Software: Geometer Sketchpad®
- Adopted from: *Visualizing Functions: Introductory Algebra Activities with The Geometer Sketchpad* by Nicholas Jackiw, NCTM Pittsburgh 1999

Topic: Parametric Color, Loci & ~~Random Wandering~~ Scanning for speed...

- Software: Geometer Sketchpad®
- Adopted from: Original Idea

Fractal drawing

- Software: Word® /AppleWorks®
- Adopted from: *Focus on Fractals* by Dr. Evan M. Maletsky, NCTM Boston 1995 & some original ideas.

More Fractals
- Software: Geometer Sketchpad®
- Some original ideas with a little help from my friends—with special thank you to Alan Russell.

The Chaos Game
- Software: Excel®
- Adopted from: Various Sources

Free Math Clipart and Fonts
- Software: Netscape®/Internet Explorer®
- Website:http://www.educaide.com/download/graphics.html

Digital Images—Problems Around Us
- Digital Camera
- From: Original idea!

Digital Images—Making Parabolas
- Software: Geometer Sketchpad®/Graphic Analysis®
- Adopted from: *Using A Digital Camera To Verify Quadratic Behavior*, by Harris S. Shultz, Mathematics Teacher, April 1999

Digital Images—Permutations & Combinations
- Software: PowerPoint®
- Adopted from: *Photographs and Committees: Activities That Help Students Discover Permutations and Combinations*, by Jennifer Earles Szydlik, Mathematics Teacher, February 2000

Digital Images—Transformations
- Software: PowerPoint®
- From: Chip Pierce—used with permission.

Digital Images—Video to frame a problem
- Software: PowerPoint®/Excel®/Video Editing Software/TI Interactive®/Sketchpad®
- Original Idea!

Equation Writing
- Software: Word® /AppleWorks® /TI-Interactive®

Math Jeopardy & Other Games People Play
- Software: PowerPoint®/HyperStudio®
- Adopted from: Technology Tips by Mary Kathryn Geesaman, Mathematics Teacher, January 2000 Thanks to who ever gave me the second.

Dynagraphs
- Software: Geometer Sketchpad®
- Adopted from: Sample files on Sketchpad CD

Functions, Tangents, Slopes & First Derivatives
- Software: Geometer Sketchpad®
- Adopted from: Geometer Sketchpad Master Class, Mills College, Oakland, CA, July 2002

Squaring the States...
- Software: Geometer Sketchpad®/ IE or Netscape
- Adopted from: A magazine article that I cannot find...if any one knows I would really like to know.

The Birthday Problem
- Software: Excel®/AppleWorks®
- Adopted from:Original Idea!
- Also see: *Exploring the Birthday Problem with Spreadsheets* by Lawrence M. Lesser, Mathematics Teacher May 1999