

Developing Conceptual Understanding of High School Mathematics

Building Arithmetic Sequence

- [2-Hexagon Task](#)
- [8-Hexagon Solution Paths](#)
- [Arithmetic Sequences](#)

Differentiated Instruction

- [Tiered Assignments](#) (Dr. Hendricks)
- [Tiered Assignments Additional Pages](#) (Dr. Hendricks)

Direct Variation and Linear Function

- [Pattern Task Cards Images](#)
- [Pattern Task Cards Instructions](#)

Kenneth Jones Similarity Lesson

- [Geogebra Investigations](#)
- [Angle of Refraction Day 5 Notebook](#) *
- [Day 2 Notebook](#) *
- [Shadows Notebook](#) *
- [Lamp Post Shadow](#) **
- [Tree and Shadow](#) **

* These files are Smart Notebook files.

** These are GeoGebra files. You can find a free app at GeoGebra.org.

M & M Circle Graphs

- [M & M Math Chart](#)
- [M & M Math Circles](#)

Quadratics Multiple Representation

- [Algebra Tile Mat](#)
- [Completing the Square Using Algebra Tiles](#)
- [Quadratic Representations Template](#)

Tim Howard Presentation

- [Speed of Impact II with Notes](#)
- [Speed of Impact II](#)
- [The Simplicity of Compact Numbers](#) (Word)
- [The Simplicity of Compact Numbers](#) (PowerPoint)
- [Trigonometry Tidbits](#)

[Alice in Wonderland Reasoning](#)

Differences and Rates of Change

Exponential Experiments

Ferris Wheel

Operations with Functions and Inverses

Shadow and Quadratic Activities

Using the Bar Model to Solve Problems