Foundations of Geometry Pacing Guide

**Rationale**:

*Students will take pre-assessments to identify areas of strength and need.* *Students in this course will participate in three stages of learning: concrete (hands on), algorithmic (procedural), and application (real life. Instruction will focus on algebraic skills, basic terminology of geometry, transformations, congruency, similarity, triangles, coordinate geometry, and circles. This course is an elective credit and does not count towards the four math credits required for graduation.*

**Intended course participants:**

*This course is designed for students with a pattern of deficiency in math as identified by examining test history, soliciting teacher input, and considering specific learning disabilities.*

**Purpose:**

*The purpose of Foundations of Geometry is to provide students with experiences to enhance students’ strengths and prepare them for success in Geometry.*

**Pre-Assessment & Post-Assessment**:

*Teachers will use the assessment (or modification of) as the pre and post test. Any midterm or final exam will be teacher made.*

**Units & Resources:**

***Unit Topics****: Review of Algebraic skills, basic terminology of Geometry, transformations, congruency, similarity, triangles, coordinate geometry, and circles.*

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| **Day** | **Topics** |
| 1-10 | Algebraic Review – Equations & Formulas |
| 11-21 | Algebraic Review – Slope, Parallel, Perpendicular, Radicals & Geometric Mean |
| 22-40 | Undefined terms, Segments, Angles |
| 46- 61 + 2 extra days | Triangles, Congruency, Similarity, Transformations |
| 64-78 | Circles, Coordinate Geometry, Rt Triangles |
| 79 - 85 | Review & Catch up |
| 86 – 90 | Exams |

**Resources**:

PENDA

Insidemathematics.org

Mini Lesson: Transformations in Geometry

<http://thetutorhouse.blogspot.com/2012/05/mini-lesson-transformations-in-geometry.html>

Better Word Walls

<http://www.freetech4teachers.com/2012/02/guest-post-using-microsoft-word-to.html#.UcMNhDtOS8A>

Coordinate Geometry interactive board

<http://faculty.kutztown.edu/schaeffe/bulletinboards/Bienfang/Info.html>

I have who has… geometry vocab

<http://www.ashleigh-educationjourney.com/search?updated-max=2011-03-31T18:14:00-07:00&max-results=7>

Interactive geometric law proofs

<http://hotmath.com/learning_activities/geometry_activities.html>

Whiteboard activities for geometry 2D/3D shapes

<http://www.k-5mathteachingresources.com/Geometry-Interactive-Whiteboard-Resources.html>

Fun Activities plus snow angles

<http://deceptivelyeducational.blogspot.com/search/label/Geometry>

[http://www.livebinders.com/play/play?id=44871](http://mail.onslow.k12.nc.us/exchweb/bin/redir.asp?URL=http://www.livebinders.com/play/play?id=44871)