**Connecticut Core Curriculum for High Schools - Geometry**

**Professional Development Plan**

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| **Unit 1: Coordinates & Transformations** |
| **Date:**  | **Location:**  |
| **Presenters:** |
| **Schedule for the day: (3 hours suggested)****Start time:** **End time:** Introduction to Connecticut Core Geometry Curriculum (15 minutes)Introduction to Unit 1 (15 minutes)Whole Group Icebreaker Activity (15 minutes) (Activity 1.2.3 – Matching Pre-Images and Images, index cards needed)Break (5 minutes)Workshops: (Three workshops, total 110 minutes)Break (5 minutes)Closing session (15 minutes) |
| **Opening Session** One presenter introduces the curriculumOne present introduces Unit 1**Equipment and Materials**CT\_Core\_Geometry\_Intro\_v3.pptxUnit1\_PD\_overview\_v3.pptx Geom\_Unit1\_plan\_v3.docx |
| **Workshop 1** | **Presenter:** **Room**  |
| **Activities**Investigation 3: Angles and RotationsActivity 1.3.1 | **Equipment and Materials:**Paper and PencilProtractors and straightedge |
| **Workshop 2** | **Presenter:** **Room**  |
| **Activities**Investigation 5: Composition of TransformationsActivities 1.5.2 & 1.5.3 | **Equipment and Materials**Graph paperPencils and straightedgeComputers with GeoGebra |
| **Workshop 3** | **Presenter:** **Room**  |
| **Activities**Investigation 7: IsometriesActivity 1.7.2 | **Equipment and Materials**Computers with GeoGebraGeoGebra file at: <http://tube.geogebra.org/material/show/id/755053> |
| **Closing Session**Discuss End-of-Unit Assessment with Assessment checklist.Solicit Feedback from participants.**Equipment and Materials:** |
| **Additional Comments:** Assuming this is the first of a series of workshops, some time at the beginning should be spent orienting the participants to the curriculum as a whole (Use the Overview Power Point for this purpose). Teachers should have some familiarity with transformations. We picked three activities that will probably be new. Investigation 3 introduces the way GeoGebra measures angles and that rotations may be greater than 180°. Investigation 5 introduces the operation of composition on transformations. Investigation 7 introduces the properties that are preserved by isometries, setting the stage for the transformational postulates used in Unit 2. |