Project Title: Math Centers

Teachers/Team: Conklin, Killian, Volpicelli, Luther, Smith
Grade Level: 4th
Curriculum Area(s): Math, Language Arts, Technology
Math **Curriculum Goal 3**: The learner will recognize and use geometric properties and relationships. **Essential Question:** How can geometric properties help us solve everyday problems?
3.01 Use the coordinate system to describe the location and relative position of points and draw figures in the first quadrant. 3.02 Describe the relative position of lines using concepts of parallelism and perpendicularity. 3.03 Identify, predict, and describe the results of transformations of plane figures. Reflections. Translations. Rotations. **Focus Question/Statement:** How would ordered pairs help you determine location? **Focus Question/Statement:** How can rotations, reflections, and translations help you complete a grid? **Focus Question/Statement:** How do you create a polygon that has examples of parallelism and perpendicularity?
Language Arts: Goal 1: The learner will apply enabling strategies and skills to read and write. 1.03 Identify key words and discover their meanings and relationships through a variety of strategies. 4.01 Read aloud grade-appropriate text with fluency, comprehension, and expression demonstrating an awareness of volume and pace. 4.02 Use oral and written language to: discuss
Technology: 1.14 Recognize and discuss telecommunications terms/concepts (e.g., browser, keyword, URL, hypertext, www). 1.15 Recognize, discuss, and model responsible and safe behavior using online resources as a class/group/individual. 3.07 Locate, select, organize, and present content area information from the Internet for a specific purpose and audience, citing sources.

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Proposed Learning Activities (Briefly state the activities students will do to complete this project.)

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Transformations of Plane Figures:
- Promethean "Penomino.flp"
- Students will be given sets of grids and manipulatives
- Students will fill the shapes/grids and check with Promethean lesson

Review of Geometric Properties and Relationships:
- ClassScape Test designed to review Goal 3
- Inspire and ACTIVExpressions will be used with the Promethean Board to help students review and the aid teacher in assessing students
- Students will have vocab cards and will play a matching game at the end

Use coordinates to describe the location and relative position of points and draw figure:
- Use the Promethean Board to demo "Simple Maze Game" website
- Then students will be given coordinates randomly to plot on their individual computers and a series of figures to draw.

Lines, Line Segments, Polygons, and Quadrilaterals:
- Students examine, define, identify, and reproduce a variety of geometric shapes.
- In pairs, they take turns building different shapes on a geoboard with rubber bands while the other partner draws the same shape on a piece of paper.

Description of Culminating Task: The math centers with the emphasis on the review session.
Assessment: Benchmark Goal 3 Test the following week to determine reteaching.
Responsibilities (Teacher): Volpicelli -- Transformations of Plane Figures Killian -- Online Coordinate Game Conklin -- ClassScape Review (Create Test and Schedule Assessment) Sechler -- Get the geoboards and do the lesson on polygons and quadrilaterals
Responsibilities (Media Coordinator):

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Responsibilities (Technology Facilitator): Helped in finding Promethean Activities and Websites Train teachers in the use of ACTIVExpressions
Planning Time: Tuesday, February 16 8:00-11:30
Start/Ending Dates for Project March 16 -- Morning Benchmark Test for Goal 3 the next week.