


Geometer's Sketchpad Tour #2

Tour 2, Day 2		Grade 4-8
	<p>Description</p> <p>Students complete tour 2 for Geometer's Sketchpad (GSP), in which they are introduced to more tools and menu items.</p>	<p>Materials</p> <p>http://www.hpedsb.on.ca/sg/quinte/gsp.htm</p> <p>file to download: tour2_new.gsp</p>
Assessment Opportunities		
Minds On...	<p>The teacher can set the stage for the culminating activity by demonstrating how a rectangle can be sketched with GSP. Guided discussion will have students reminding the teacher to “prove” it is a rectangle by measuring sides (opposite sides are equal) and angles (all are 90 degrees each). Then the teacher can “suggest” it isn't a “constructed” rectangle, even though it looks like one – this is easily done by grabbing a point or side, and dragging it: this will distort the rectangle. The teacher then notes to the class that “tour 2” will give them the skills to CONSTRUCT a rectangle, one that cannot be distorted by dragging some element of it.</p>	
Action!	<p>Complete tour 2 in the order presented by the gsp file.</p> <p>Students will need to be reminded to read directions fully before doing anything, in order to establish appropriate contexts and determine what the end product is.</p>	↻
Consolidate Debrief	<p>This tour ends with having students construct a rectangle. The “true test” is known as “the drag test”, where one clicks and drags on any vertex or side. A properly-constructed rectangle might rotate or dilate (enlarge or reduce), but it will remain a rectangle.</p> <p>As an alternative to printing out the rectangles, students could save tour 2, WITH CHANGES, into a “hand in” or other shared folder that the teacher can access. This provides the teacher with the opportunity to do the drag test on whatever tours have been submitted. The drag test is not possible on a printout, for obvious reasons.</p>	↻
<p><i>Application</i> <i>Concept Practice</i> <i>Differentiated</i> <i>Exploration</i> <i>Reflection</i> <i>Skill Drill</i></p>	<p><u>Home Activity or Further Classroom Consolidation</u></p> <p>As of January 2005, negotiations were underway between OSAPAC and Key Press (publishers of GSP) to have a take-home version of the program for all students in Ontario to freely borrow from the school to install at home. With this</p>	