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Geometry Exploration Lab

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Topic: 2.5 Parallel Lines and Angles

1. Draw a pair of parallel lines that take up the upper half of your page.
2. Now draw a line that intersects both parallel lines, this is called a transversal. You should have 8 angles present. Label them 1-8. Just for convenience, I'll have everyone label the same way. Check-in with Mr. Freeman (or the diagram on the board).
3. For convenience, let's use the following notation: (a, b) represent angles a and b . What can you say about $(1, 2)$? What about $(1, 3)$?
4. Which angles are congruent?
5. Which angles are supplementary?
6. Which angles are complimentary?
7. See if you can recall these words, and label which of your angles satisfies the angle relationships in the table. Copy this table for your notebook.

Name of Angle Relationship (Include a mini-drawing above name)	Angles	Complimentary, Supplementary, or Congruent
Vertical Angles		
Corresponding Angles		
Alternate Interior		
Alternate Exterior Angles		
Same Side Interior Angles		
Same Side Exterior Angles		