Lesson 2-1 Parallel lines and transversals

This is a discovery activity. By the end you should know:

* What is a transversal
* What symbol is used to show that lines are parallel
* How many angles are formed when a transversal intersects a pair of lines
* What is the relationship between angles when a transversal intersects parallel lines

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**Your Mission:**

1. Use a sheet of graph paper and a straightedge to draw two parallel line segments (Separate them by at least 5 boxes)
2. Draw a third segment diagonally through both parallel segments near the middle of both
3. Label the diagonal line with the word TRANSVERSAL
4. Label all the angles with a different number
5. Use a protractor to measure all the angles you see

**Your Next Mission:**

**Answer the following questions**

1. How many angles did you create with your transversal?

2. How many different angle measures did you find?

3. What are the angle measures? \_\_\_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_

4. What kind of angle relationships are involved when a transversal crosses two parallel lines?

5. Use your answer to #4 and the angle labels from your drawing to write the relationships that all angles have in your drawing.

6. How does the picture on the front connect to what you did today?

7. Congratulations on making it this far. You have created new synaptic connections today. If you secretly say the words under par to any teacher right now you will receive an award.