Name: _____

Straw Activity

1. You and your partner will construct many different triangles and record all of your findings in the table below. Choose **3 straws** to construct your triangles and record the side lengths in the table. Do **not** make equilateral triangles. For each group of straws, write the side lengths under the correct column.

"Yes" Triangles (Write side lengths in order from least to greatest)	**"No" Triangles** (Write side lengths in order from least to greatest)

2. What pattern do you notice in the table? What do you notice about the side lengths that made a triangle and the side lengths that did not make a triangle?

3. Choose one set of straws that **did not** make a triangle. S1____ S2 ____ S3____
   What could you change about the third side so that they would construct a triangle?

4. Create your own questions for your partner by coming up with side lengths and have your partner say whether or not the sides create a triangle or not and why.

5. Now, take a full straw and cut it into 3 pieces (each of a different length) so that you are able to construct a triangle from these 3 pieces. Trace this triangle on the paper and label the dimensions of each side of the triangle.

6. Generate any questions you have about what makes a triangle or what does not make a triangle.