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Geometry Exploration Lab

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## Topic: 3.5 Triangle Congruence Proofs Introduction

1. Write a simple recipe for a PB&J sandwich.
  - What do you notice about the recipe's structure?
  - Do the order of the steps matter? Explain.
  - Think about the recipes for other foods you enjoy. What do they all boil down to?
2. Draw two triangles for each of the five congruence shortcuts and note any observations. Use geometric markings appropriately.

Side Angle Side (SAS)	Drawing	Characteristics
Side Angle Angle (SAA)	Drawing	Characteristics
Side Side Side (SSS)	Drawing	Characteristics
Angle Side Angle (ASA)	Drawing	Characteristics
Hypotenuse Leg (HL)	Drawing	Characteristics

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3. Look at your observations and think back to your recipe from Q1. What similarities do you notice between these two?
4. Could you prove that two triangles are congruent based on their characteristics? Draw two triangles and attempt this task.