

Go to the link: <http://illuminations.nctm.org/Activity.aspx?id=3504>

- If you can make a triangle and then only make congruent triangles to the first triangle, then you can prove two triangles are congruent by that specific triangle congruence postulate.
- If you can make a 2nd triangle that is NOT CONGRUENT to the first, then you cannot use that theorem to prove triangles congruent.

**SSS: Side - Side - Side**

- 1) **CLICK**: AB, BC and AC
- 2) Can you make a triangle? *YES or NO?* \_\_\_\_\_
- 3) If **yes**, can you make a **second** triangle that is **not congruent**? *YES or NO?* \_\_\_\_\_
- 4) So, can you use **SSS** to prove triangles congruent? *YES or NO?* \_\_\_\_\_

**HIT RESET****SAS: Side – Angle - Side**

- 1) **CLICK**: AB,  $\angle B$  and BC
- 2) Can you make a triangle? *YES or NO?* \_\_\_\_\_
- 3) If **yes**, can you make a **second** triangle that is **not congruent**? *YES or NO?* \_\_\_\_\_
- 4) So, can you use **SAS** to prove triangles congruent? *YES or NO?* \_\_\_\_\_

**HIT RESET****ASA: Angle- Side-Angle**

- 1) **CLICK**: AB,  $\angle A$  and  $\angle B$
- 2) Can you make a triangle? *YES or NO?* \_\_\_\_\_
- 3) If **yes**, can you make a **second** triangle that is **not congruent**? *YES or NO?* \_\_\_\_\_
- 4) So, can you use **ASA** to prove triangles congruent? *YES or NO?* \_\_\_\_\_

**HIT RESET**

**AAS: Angle-Angle-Side**

- 1) **CLICK**: AC,  $\angle B$  and  $\angle C$
- 2) Can you make a triangle? *YES or NO?* \_\_\_\_\_
- 3) If **yes**, can you make a **second** triangle that is **not congruent**? *YES or NO?* \_\_\_\_\_
- 4) So, can you use **AAS** to prove triangles congruent? *YES or NO?* \_\_\_\_\_

**HIT RESET**

**SSA: Side – Side – Angle**

- 1) **CLICK**: AB, BC and  $\angle C$
- 2) Can you make a triangle? *YES or NO?* \_\_\_\_\_
- 3) If **yes**, can you make a **second** triangle that is **not congruent**? *YES or NO?* \_\_\_\_\_
- 4) So, can you use **SSA** to prove triangles congruent? *YES or NO?* \_\_\_\_\_

**HIT RESET**

**AAA: Angle – Angle – Angle**

- 1) **CLICK**:  $\angle A$ ,  $\angle B$  and  $\angle C$
- 2) Can you make a triangle? *YES or NO?* \_\_\_\_\_
- 3) If **yes**, can you make a **second** triangle that is **not congruent**? *YES or NO?* \_\_\_\_\_
- 4) So, can you use **SSS** to prove triangles congruent? *YES or NO?* \_\_\_\_\_

**HIT RESET**