Old Maid

Triangle Congruence

- ★ Students gain practice in identifying the five triangle congruence conditions: SSS, SAS, ASA, AAS, and HL.
- ★ Students will learn to recognize a condition under which two triangles are NOT congruent: Side – Side – Angle (SSA).
- ★ Game cards include multiple representations of the congruence conditions including definitions and visuals.
- ★ Students will engage in a competitive and fun game!

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Thank You!

Cassidy and Chloe - Inspired By Math

Old Maid - Triangle Congruence

The Set Up

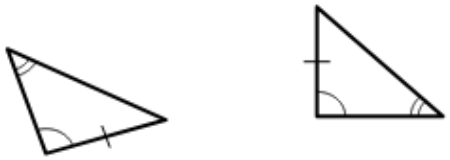
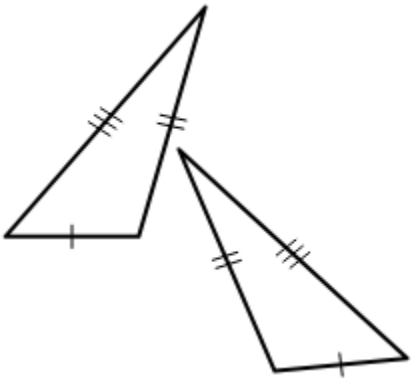
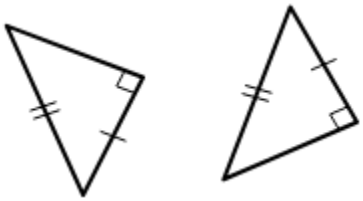
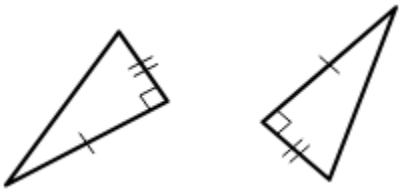
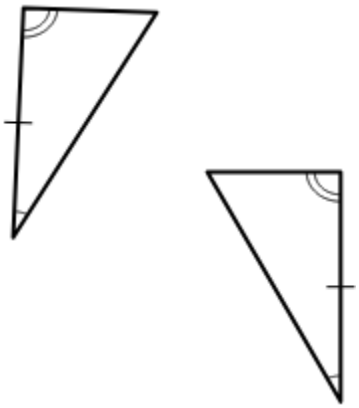
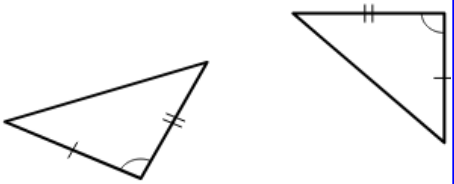
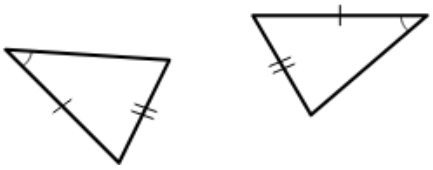
There are 27 total playing cards. 26 of these cards can be paired with others by congruence conditions for a total of 13 pairs. The remaining card has two triangles that cannot be proven congruent (falls under SSA) - this card is the Old Maid!

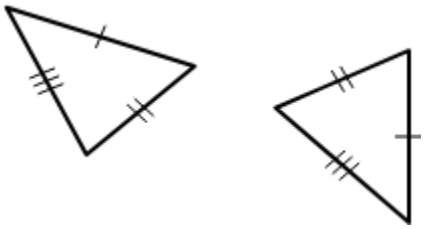
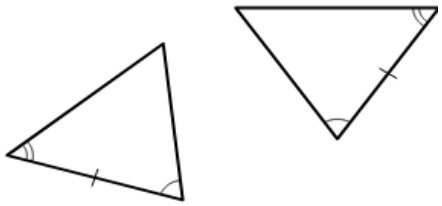
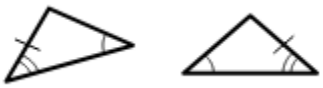
Cut out the cards and laminate them for repeated use.

Game Play

1. **Deal cards**
   Shuffle the cards and deal them face down equally to all students. This game is ideally suited for groups of 3 players, so that each player starts with 9 cards.
2. **Discard pairs**
   Students look at their cards and discard any pairs they have face up in the middle of the table. Pairs are formed according to the five triangle congruence conditions - SSS, SAS, ASA, AAS, and HL. Students may pair any two cards that meet the same condition. For example, a student could form a pair with the SSS title card and the card with the definition of SSS. They could also pair the definition of SSS with a card containing two triangles that are congruent by SSS.
3. **Take turns**
   The student to the left of the dealer starts by offering their cards face down to the student on their left. The student on the left draws one card and adds it to their hand. If the card matches one in their hand, they discard the pair. If not, they keep the card. Every player should be checking that all pairs discarded to the middle are indeed matching.
4. **Continue play**
   Play continues clockwise, with players taking turns offering their cards face down to the player on their left.
5. **Win**
   The first player to get rid of all their cards wins and is safe from holding the Old Maid. The remaining players continue to play until there is only one player left with the Old Maid card, who loses.

SSS	All three sides of one triangle are congruent to the corresponding sides of another triangle.	ASA
Two triangles have two pairs of congruent angles and the included side between those angles is also congruent.	SAS	Two sides and the included angle of one triangle are congruent to two sides and the included angle of another triangle.
AAS	Two triangles have two pairs of congruent angles and one pair of non–included sides that are congruent	HL

Two right triangles have a pair of congruent legs and their hypotenuses are of equal length.		
		
		

		
Triangle ABC: AB = 7 cm BC = 12 cm AC = 7 cm Triangle DEF: DE = 12 cm EF = 7 cm DF = 7 cm	Triangle GHI: m∠G = 45° m∠H = 30° HI = 10 cm Triangle JKL: m∠K = 30° m∠L = 45° JK = 10 cm	
Triangle MNO: MN = 14 in NO = 20 in MO = 22 in Triangle PQR: PQ = 22 in QR= 14 in PR = 20 in		Right Triangle STU: SU = 5 ft ST = 3 ft Right Triangle WXY: WX = 3 ft WY = 5 ft