

Lesson Title: Triangle Yoga Designer: Diane Hunter  
Discipline: Math Grade Level: 4-5

## **Activity 1:** Could it have...?!?

*(Appropriate for AFTER the Broadcast Lesson)*

**Activity Goal:** Explore what qualities triangles can have simultaneously.

**Targeted Math Skills:** Identify qualities of different triangles.

**Materials:** Triangle cards: True or False Questions (attached), blank paper, writing utensil, clay and toothpicks could be used to try out the different scenarios (optional).

### **Steps:**

1. Student and teacher/peer/guardian each select 1 triangle card.
2. Collaborate and try to prove whether the statement is either true or false.
3. Sort the true/false cards and categories.

**Further Extension:** May be true if \_\_\_\_\_

1. Before you start testing these out--do you have a prediction? What makes you draw this conclusion?
2. When will you think that the statement is proved to be true or false? How do you know? Explain your answer (orally or written).

## **Activity 2:** Triangle Scavenger Hunt!

*(Appropriate for AFTER the Broadcast Lesson)*

**Activity Goal:** Find items that use triangles. Draw conclusions to determine whether the triangles have similar purposes.

**Targeted Math Skills:** Real-world applications of mathematical concepts (triangles).

**Materials:** Blank paper, writing utensil, and a clipboard (optional).

### **Steps:**

1. Walk around and find as many items that are triangles as you can.
2. List where you found it and what it is used for.
3. Take jottings on blank paper to create inferences about the purposes of these items and whether they are similar (i.e. holding things, a decoration, etc.).
4. Walk around once more to revisit the original triangle-shaped items you found; identify what type of triangle is being used.

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## Questions to Consider:

1. Where did you find the most triangles?
2. Were there triangles that were part of other figures?
3. Why do you think they used triangles for some of these items?

## Additional Resources for Lesson-Related Extension Activities:

- **Helpful Tips:** Encourage students to draw different kinds of triangles while exploring items that are triangle shapes in their everyday spaces that students occupy. Exploring mathematical concepts in the real-world is helpful when learning about shapes!
- **Student-Facing &/or Teacher-Facing:**
  - 10 Real Life Examples of Triangles (Studio Guys) - <https://studiousguy.com/10-real-life-examples-of-triangle/>
  - Video Tutorial: Mathematical Concepts: Triangles (Math antics) - <https://www.youtube.com/watch?v=mLeNaZcy-hE>
- **Teacher-Facing:**
  - Lesson Supplemental Resource: Types of Triangles (Story of Mathematics) - <https://www.storyofmathematics.com/types-of-triangles>
  - Lesson Supplemental Resource: Types of Triangles (Math Bits Notebook) <https://mathbitsnotebook.com/Geometry/SegmentsAnglesTriangles/SATTriangleTypes.html>

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**Activity 1 Materials**

<b>A triangle can have more than 1 obtuse angle.</b>	<b>A triangle can have 2 congruent sides and a right angle.</b>	<b>Acute triangles cannot be scalene triangles</b>
<b>Obtuse triangles cannot be equilateral triangles.</b>	<b>Every triangle has an acute angle.</b>	<b>Isosceles triangles cannot have an obtuse angle</b>
<b>Any triangle can have 2 right angles</b>	<b>A scalene triangle cannot have a right angle.</b>	<b>A right triangle must have 2 acute angles.</b>

- Things to remember:
  - Equilateral triangle: all equal sides.
  - Isosceles triangle: 2 sides are equal.
  - Scalene triangle: no sides are equal.