

# Unit 4 - Similarity:

## Learning Targets and Success Criteria:

1. I can apply the definition of similarity in terms of similarity transformations.  
I know I can because:
  - o I can write angle congruency statements for two similar figures.
  - o I can write a proportionality statement for two similar figures.
  - o I can find the scale factor between two similar figures.
  - o I can decide if two figures are similar.
  - o I can find missing sides using proportions with similar figures.
2. I can prove two triangles similar.  
I know I can because:
  - o I can use these similarity theorems for triangles:
    - AA~
    - SAS~
    - SSS~
3. I can prove theorems about triangles involving similarity.  
I know I can because:
  - o I can prove the theorem that a line parallel to one side of a triangle divides the other two proportionally.
  - o I can find missing sides in similar triangles using this theorem.

## Day 1:

### Learning Targets and Success Criteria:

#1 (see above)

**Standard:** MGSE9-12.SRT.2, 3, 4, 5

### Introduction/Connection:

Daily 10

### Direct Instruction/Guided Practice/Assessment Strategy/Assignment:

Ratios opener (using real life examples that pertain to them)

Activity 10 (similar trapezoids)

Similar Polygons PowerPoint

Similar Polygons Notes

Similar Polygons Practice Day 1

**Summarizers:** Discuss and correct questions they thought were difficult.

**Homework:** None :)

## **Day 2:**

### **Learning Targets and Success Criteria:**

#1 (see above)

**Standard:** MGSE9-12.SRT.2, 3, 4, 5

### **Introduction/Connection:**

Daily 10

### **Direct Instruction/Guided Practice/Assessment Strategy/Assignment:**

Similar Polygons Notes Continued

Similar Polygons Practice Continued

Similarity WS

**Summarizers:** Discuss and correct questions they thought were difficult.

**Homework:** None :)

## **Day 3:**

### **Learning Targets and Success Criteria:**

#1 (see above)

**Standard:** MGSE9-12.SRT.2, 3, 4, 5

### **Introduction/Connection:**

Daily 10

### **Direct Instruction/Guided Practice/Assessment Strategy/Assignment:**

Use Proportions to solve Geometry Problems Guided Notes

Similar Polygons Practice 7-2

**Summarizers:** Discuss and correct questions they thought were difficult.

**Homework:** None :)

## **Day 4:**

### **Learning Targets and Success Criteria:**

#1 (see above)

**Standard:** MGSE9-12.SRT.2, 3, 4, 5

**Introduction/Connection:**

Daily 10

**Direct Instruction/Guided Practice/Assessment Strategy/Assignment:**

More Similar Polygons Practice 7-2 WS (day 2)

iXLs P:1, 2, 3, & 5

**Summarizers:** Discuss and correct questions they thought were difficult.

**Homework:** None :)

## **Day 5:**

**Learning Targets and Success Criteria:**

#1 (see above)

**Standard:** MGSE9-12.SRT.2, 3, 4, 5

**Introduction/Connection:**

Daily 10

**Direct Instruction/Guided Practice/Assessment Strategy/Assignment:**

Similar Polygons Practice Quiz

8.3 Similar Polygons Practice

Similar Polygons Quiz

Similar Triangles Graphic Organizer

**Summarizers:** Discuss and correct questions they thought were difficult.

**Homework:** None :)

## **Day 6:**

**Learning Targets and Success Criteria:**

#2 & 3 (see above)

**Standard:** MGSE9-12.SRT.2, 3, 4, 5

**Introduction/Connection:**

Daily 10

**Direct Instruction/Guided Practice/Assessment Strategy/Assignment:**

Similar Triangles Notes

Similar Triangles Practice

iXLs P: 7 & 10

**Summarizers:** Discuss and correct questions they thought were difficult.

**Homework:** None :)

**Day 7:**

**Learning Targets and Success Criteria:**

#2 & 3 (see above)

**Standard:** MGSE9-12.SRT.2, 3, 4, 5

**Introduction/Connection:**

Daily 10

**Direct Instruction/Guided Practice/Assessment Strategy/Assignment:**

Similar Polygons & Triangles Practice

Similar Polygons Color Activity & Finish iXLs

**Summarizers:** Discuss and correct questions they thought were difficult.

**Homework:** None :)

**Day 8:**

**Learning Targets and Success Criteria:**

#2 & 3 (see above)

**Standard:** MGSE9-12.SRT.2, 3, 4, 5

**Introduction/Connection:**

Daily 10

**Direct Instruction/Guided Practice/Assessment Strategy/Assignment:**

Similar Triangles Practice Quiz

Similar Triangles Quiz

Geometry Worksheet (Similar Polygons)

**Summarizers**: Discuss and correct questions they thought were difficult.

**Homework**: None :)

## **Day 9:**

**Learning Targets and Success Criteria:**

#'s 1, 2 & 3 (see above)

**Standard**: MGSE9-12.SRT.2, 3, 4, 5

**Introduction/Connection:**

Daily 10

**Direct Instruction/Guided Practice/Assessment Strategy/Assignment:**

Test Review

MCQ Test Review

Coach Practice

**Summarizers**: Discuss and correct questions they thought were difficult.

**Homework**: None :)

## **Day 10:**

**Learning Targets and Success Criteria:**

#'s 1, 2 & 3 (see above)

**Standard**: MGSE9-12.SRT.2, 3, 4, 5

**Introduction/Connection:**

Daily 10

**Direct Instruction/Guided Practice/Assessment Strategy/Assignment:**

Unit 4: Similar Polygons and Triangles Test

**Summarizers**: Discuss and correct questions they thought were difficult.

**Homework**: None :)