

# Mathematics CFA Template

## Pre-Instruction

1. List the Standard. Underline the nouns (what students will know) and highlight the verbs (what student will do):

6.G.1 Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real world and mathematical problems.

### 2. Mathematical Practices

- #1- Make sense and persevere in solving them.
- #2-Reason abstractly and quantitatively
- #3-Construct viable arguments and critique the reasoning of others
- #4-Model with mathematics
- #5-Use appropriate tools strategically
- #6-Attend to precision
- #7-Look for and make use of structure
- #8-Look for and express regularity in repeated reasoning

### 3. I Can Statements – Put learning targets in student friendly terms.

1. I can find the area of triangles, quadrilaterals, and polygons.
2. I can compose quadrilaterals, triangles, and polygons into rectangles or decompose into triangles and other shapes
3. I can apply and solve real world problems

Depth of Knowledge of the standard (Highlight the level of the learning target.)

Level 1-Recall; **Level 2- Skill/Concept; Level 3- Strategic thinking**; Level 4-Extended Thinking

### 4. List the skills students need to know in order to begin this standard:

1. Read and understand/make sense of word problems
2. Vocabulary- area, quadrilaterals, polygons, compose, decompose, right triangles
3. How to find the area triangles, quadrilaterals, and polygons
4. Compose and decompose a rectangle into 2 triangles

5. What type of assessment am I going to write? [selected response (m/c, t/f, y/n, matching, fill in \_\_\_) **or** constructed response (**short**: word, phrase, sentence, single problem; **extended**: multi-step operations in math, problem solving)] List the assessment questions.

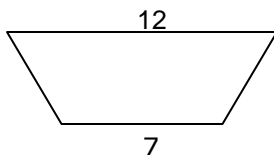
Exit tickets- Vocabulary plus skills

Constructive response-short: few questions

Word problems which include finding the area of triangles, quadrilateral, and polygons

#### Examples:

1. Find the area of a triangle with a base length of three units and a height of four units.
2. Find the area of the trapezoid shown below using the formulas for rectangles and triangles. The height is 3 units.



3. A rectangle measures 3 inches by 4 inches. If the lengths of each side double, what is the effect on the area?
4. The area of the rectangular school garden is 24 square units. The length of the garden is 8 units. What is the length of the fence needed to enclose the entire garden?

#### 6. Scoring Guide

**Exceeds Expectations:** Student answered 4 out of 4 questions correctly

**Proficient:** Student answered 3 out of 4 questions correctly

**Approaching Proficiency:** Student answered 2 out of 4 questions correctly

**Not Proficient:** Student answered 1 out of 4 questions correctly



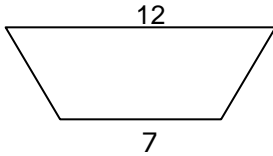
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### 6.G.1 – Formative Assessment

**Directions: Solve the following problems. Be sure to show your work.**

1. Find the area of a triangle with a base length of three units and a height of four units.

2. Find the area of the trapezoid shown below using the formulas for rectangles and triangles. The height is 3 units.



3. A rectangle measures 3 inches by 4 inches. If the lengths of each side double, what is the effect on the area?

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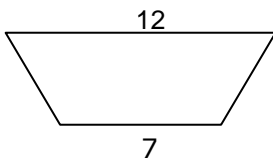
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