

Mathematics CFA Template

Pre-Instruction

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

5.NF.1 – **Add** and **subtract** fractions with unlike denominators (including mixed numbers) by **replacing** given fractions with equivalent fractions in such a way as to **produce** an equivalent sum or difference of fractions with like denominators. For example, $2/3 + 5/4 = 8/12 + 15/12 = 23/12$ (In general, $a/b + c/d = (ad + bc)/bd$)

2. Mathematical Practices

2. Reason abstractly and quantitatively.
4. Model with mathematics.
7. Look for and make use of structure.

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

I can find equivalent fractions.

I can add fractions, including mixed numbers, with unlike denominators.

I can subtract fractions, including mixed numbers, with unlike denominators.

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:

Understand that to add, subtract, or compare fractions the whole needs to be the same when using models.

Add fractions with like denominators.

Understand equivalent fractions and ability to rewrite fractions in an equivalent form.

Know that multiplying denominators will give a common denominator but may not be the smallest denominator.

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.

Solve the following problems.

1. $1/3 + 1/6 =$
2. $1/3 - 2/12 =$
3. $1/2 + 3/8 =$
4. $4/7 - 2/5 =$
5. $1\ 1/3 + 1/4 =$
6. $2\ 7/8 - 3/4 =$

6. Scoring Guide

Exceeds Expectations: Student solves each problem correctly showing and explaining their work.

Proficient: Student solves each problem correctly.

Approaching Proficiency: Student solves five or six problems correctly.

Not Proficient: Student solves fewer than four problems correctly.

Name: _____

Date _____

Power Standard: 5.NF.1

Directions: Solve the following problems.

$\frac{1}{3} + \frac{1}{6}$	$\frac{1}{3} - \frac{2}{12}$	$\frac{1}{2} + \frac{3}{8}$
$\frac{4}{7} - \frac{2}{5}$	$1 \frac{1}{3} + \frac{1}{4}$	$2 \frac{7}{8} - \frac{3}{4}$

