# Module 3: Addition and Subtraction of Fractions
## (Trimester 2:  22 Days)

| Topic A | Equivalent Fractions | | 4.NF.1 |
|---|---|---|---|
| Topic B | Making Like Units Pictorially | | **5.NF.1  5.NF.2** |
| Topic C | Making Like Units Numerically | | **5.NF.1  5.NF.2** |
| Topic D | Further Applications | | **5.NF.1  5.NF.2** |
| ASSESSMENT | 5.NF.1 | Reporting Strand:  Adds and subtracts fractions | Report Card: 0-4 |
| | 5.NF.2 | | |

**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.)

**5.NF.2** Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers. For example, recognize an incorrect result 2/5 + 1/2 = 3/7, by observing that 3/7 < 1/2.

**Reporting Strand:  Adds and subtracts fractions**

| CCSS | 4 – Mastery | 3- Proficient | 2 – Basic | 1 – Below Basic | 0 – No Evidence |
|------|-------------|---------------|-----------|------------------|-----------------|
| **5.NF.1** | Can extend thinking beyond the standard, including tasks that may involve one of the following: | Add and subtract fractions with unlike denominators, **including mixed numbers,** by finding common denominators. | Add and subtract fractions with **unlike** denominators **by finding common denominators.** | Add and subtract fractions with like denominators | Little evidence of reasoning or application to solve the problem |
| **5.NF.2** | • Designing<br>• Connecting<br>• Synthesizing<br>• Applying<br>• Justifying<br>• Critiquing<br>• Analyzing<br>• Creating<br>• Proving | Solve word problems involving addition and subtraction of fractions, including unlike denominators, using visual models or equations.<br><br>**Use benchmark fractions and number sense to estimate and assess the reasonableness of the answer.** | Solve word problems involving addition and subtraction of fractions, including **unlike denominators**, using visual models or equations. | Solve word problems involving addition and subtraction of fractions with **like denominators**, using visual models or equations. | Does not meet the criteria in a level 1 |

## Suma y resta fracciones

| CCSS | 4 – Dominio | 3- Apto | 2 – Básico | 1 – Por debajo de lo Básico | 0 – No hay Evidencia |
|---|---|---|---|---|---|
| **5.NF.1** | Puede pensar más allá del estándar, incluyendo tareas que puedan involucrar uno de los siguientes aspectos: <br><br> • Diseñar <br> • Conectar <br> • Sintetizar <br> • Aplicar <br> • Justificar <br> • Criticar <br> • Analizar <br> • Crear <br> • Demostrar | Suman y restan fracciones con denominadores distintos, **incluyendo números mixtos**, hallando denominadores comunes. | Suman y restan fracciones con denominadores **distintos hallando denominadores comunes**. | Suman y restan fracciones con denominadores iguales | Hay poca evidencia de razonamiento o aplicación para resolver el problema <br><br><br> No reúne los criterios del nivel 1 |
| **5.NF.2** | | Resuelven problemas verbales de suma y resta de fracciones incluyendo casos de denominadores distintos usando modelos visuales o ecuaciones. <br><br> **Utilizan las fracciones de referencia y el sentido numérico para hacer cálculos mentales y evaluar la lógica de la respuesta.** | Resuelven problemas verbales de suma y resta de fracciones incluyendo casos de **denominadores distintos** usando modelos visuales o ecuaciones. | Resuelven problemas verbales de suma y resta de fracciones incluyendo casos de **denominadores iguales** usando modelos visuales o ecuaciones. | |