



Marietta City Schools District Topic Planner

Fifth Grade

Topic Title

Topic 7: Use Equivalent Fractions to Add and Subtract Fractions

Unit duration

20 days

Big Idea: Numbers and Operations: Fractions - Adding and Subtracting Fractions

[Georgia Standards of Excellence](#)

- **5.NF.1** Add and subtract fractions and mixed numbers with unlike denominators by finding a common denominator and equivalent fractions to produce like denominators.
- **5.NF.2** Solve word problems involving addition and subtraction of fractions, 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 $\frac{2}{5} + \frac{1}{2} = \frac{3}{7}$, by observing that $\frac{3}{7} < \frac{1}{2}$.

■ Major work of the grade □ Supporting standard ● Additional standard

Informational Links

[GSE Unit 4 Frameworks: Adding, Subtracting, Multiplying, and Dividing Fractions](#)

[MCS Math Instructional Framework](#)

[MCS Math Instructional Framework with Resource Guidance](#)

About the Math

[GaDOE:Grade 5 Standards Overview Document](#)

[GaDOE: What Do Standards Look Like in Fifth Grade?](#)

Topic 7: Learning Resources

5.NF.1, 5.NF.2

Lesson Number/Task/Module	Lesson	Lesson Description	Standards Addressed
Savvas 7-1	Estimate Sums and Differences of Fractions Savvas pp. 269-272	Students estimate sums and differences of fractions by using the nearest half or whole number.	5.NF.1 5.NF.2
Supplemental 7-1	More or Less? GaDOE Scaffolding Task	Students decide if the collection of fractional parts is less than, greater than, or equal to one whole.	5.NF.1 5.NF.2
Savvas 7-2	Find Common Denominators Savvas pp. 273-276	Students find common denominators for fractions with unlike denominators.	5.NF.1 5.NF.2
Savvas 7-3	Add Fractions with Unlike Denominators Savvas pp. 277-280	Students add fractions with unlike denominators using equivalent fractions with a common denominator.	5.NF.1 5.NF.2
Supplemental 7-3	Exploring Addition with the Area Model MIP Module 7 pp. 145-149	Students use area models to add fractions.	5.NF.1 5.NF.2
Savvas 7-4	Subtract Fractions with Unlike Denominators Savvas pp. 281-284	Students subtract fractions with unlike denominators.	5.NF.1 5.NF.2
Supplemental 7-4	Exploring Subtraction with Fractions MIP Module 7 pp. 157-158	Students use manipulatives to subtract fractions with unlike denominators.	5.NF.1 5.NF.2
Savvas 7-5	Add and Subtract Fractions Savvas pp. 285-288	Students write equivalent fractions to add and subtract fractions with unlike denominators.	5.NF.1 5.NF.2
Supplemental 7-5	Using the area model to Subtract MIP Module 7 pp.158	Students find common denominators and use them to add without models.	5.NF.1 5.NF.2
Supplemental 7-5	Adding by Finding Common Denominators MIP Module 7 pp.151-154	Students use the area model to solve problems involving subtracting fractions with unlike denominators.	5.NF.1 5.NF.2

Savvas 7-6	Estimate Sums and Differences of Mixed Numbers Savvas pp. 289-292	Students estimate sums and differences of fractions and mixed numbers.	5.NF.1 5.NF.2
Savvas 7-7	Use Models to Add Mixed Numbers Savvas pp. 293-296	Students add mixed numbers using models.	5.NF.1 5.NF.2
Supplemental 7-7	Exploring Subtracting Mixed Numbers MIP Module 7 pp.159-160	Students use their knowledge of finding common denominators to subtract mixed numbers using a number line.	5.NF.1 5.NF.2
Savvas 7-8	Add Mixed Numbers Savvas pp. 297-300	Students add mixed numbers using equivalent fractions and a common denominator.	5.NF.1 5.NF.2
Supplemental 7-8	Mixed Number Addition MIP Module 7 p.156	Students either rename mixed numbers as fractions or add the whole numbers and rename the fractions to add.	5.NF.1 5.NF.2
Savvas 7-9	Use Models to Subtract Mixed Numbers Savvas pp. 301-304	Students use models to subtract mixed numbers.	5.NF.1 5.NF.2
Supplemental 7-9	Using the Area Model to Subtract MIP Module 7 pp.158-159	Students use the area model to solve problems involving subtracting fractions with unlike denominators.	5.NF.1 5.NF.2
Savvas 7-10	Subtract Mixed Numbers Savvas pp. 305-308	Students subtract mixed numbers using equivalent fractions and a common denominator.	5.NF.1 5.NF.2
Supplemental 7-10	Exploring Subtracting Mixed Numbers MIP Module 7 pp.159-161	Students use their knowledge of finding common denominators to subtract mixed numbers.	5.NF.1 5.NF.2
Savvas 7-11	Add and Subtract Mixed Numbers Savvas pp. 309-312	Students add and subtract mixed numbers using equivalent fractions and a common denominator.	5.NF.1 5.NF.2
Supplemental 7-11	Magic Squares MIP Module 7 pp. 164	This allows students to practice adding and subtracting mixed numbers.	5.NF.1 5.NF.2

Additional Resources		
5.NF.1, 5.NF.2		
Standards Addressed	Lesson	Lesson Description
5.NF.1	GaDOE Practice Task: Flip it Over	Students build understanding of fractional computation.
5.NF.2	GaDOE Constructing Task: Fraction Addition and Subtraction	Students use manipulatives to add and subtract fractions.

Assessment Resources			
5.NF.1, 5.NF.2			
Type	Location	Assessment Description	Standards Addressed
Formative	MCS Mini	Students solve multiple choice problems that require them to add and subtract fractions.	5.NF.1 5.NF.2
Formative	MIP Module 7 pp. 153-154	Students solve an addition problem with unlike denominators.	5.NF.1 5.NF.2
Formative	MIP Module 7 pp. 160	Students solve a subtraction problem using mixed numbers.	5.NF.1 5.NF.2
Summative	Savvas Topic Assessment TE pp. 223-224	Students will demonstrate how to add and subtract fractions and mixed numbers. Digital or print forms are available through the Savvas platform. Use MDIS to support student needs through data.	5.NF.1 5.NF.2
Summative	Savvas Topic Performance Task TE pp. 327-328	Students will use a real-life scenario involving tying knots to add and subtract fractions.	5.NF.1 5.NF.2