

Grade 7 Weekly Lesson Plan: Fractions Unit

Strand:

Number

Specific Expectation:

B1.4 – Use the four operations with positive fractions, including mixed numbers, to solve problems.

WEEK 1: Understanding and Representing Fractions

Overall Focus: Build conceptual understanding of fractions, equivalent fractions, and fraction operations through concrete, visual, and symbolic representations.

Day 1: Introduction to Fractions and Representations

Learning Goal: I can represent fractions as parts of a whole, on a number line, and as division.

Success Criteria: I can explain what a fraction represents using models and words.

Activities: Warm-up discussion, visual models using fraction circles and number lines, and anchor chart creation.

Assessment: Observation checklist, participation.

Day 2: Equivalent Fractions and Simplifying

Learning Goal: I can identify and create equivalent fractions and simplify fractions to lowest terms.

Success Criteria: I can use models and multiplication/division to find equivalent fractions.

Activities: Review models, guided simplification, independent practice, and exit ticket.

Assessment: Exit ticket, notebook check.

Day 3: Comparing and Ordering Fractions

Learning Goal: I can compare and order fractions with like and unlike denominators.

Success Criteria: I can use benchmarks ($\frac{1}{2}$, 1) and common denominators to compare fractions.

Activities: Number line activity, group ordering challenge, class reflection.

Assessment: Anecdotal notes, participation.

Day 4: Adding and Subtracting Fractions (Like Denominators)

Learning Goal: I can add and subtract fractions with the same denominators.

Success Criteria: I can add and subtract fractions accurately using models and symbols.

Activities: Review equivalent fractions, real-world examples, partner practice (Fraction Bingo).

Assessment: Observation, student worksheet.

Day 5: Adding and Subtracting Fractions (Unlike Denominators)

Learning Goal: I can add and subtract fractions with different denominators.

Success Criteria: I can find a common denominator to solve fraction problems.

Activities: Lesson on LCD, visual group practice, exit ticket on why common denominators are needed.

Assessment: Exit ticket, formative feedback.

WEEK 2: Multiplying, Dividing, and Applying Fractions

Overall Focus: Develop procedural fluency and problem-solving skills involving multiplication and division of fractions, including mixed numbers.

Day 6: Multiplying Fractions (Conceptual)

Learning Goal: I can multiply fractions using models and words.

Success Criteria: I can represent and explain what multiplying fractions means.

Activities: Area model demonstration ($\frac{1}{2} \times \frac{2}{3}$), visual exploration with grid paper, journal reflection.

Assessment: Student reflection, discussion.

Day 7: Multiplying Fractions and Mixed Numbers (Procedural)

Learning Goal: I can multiply fractions and mixed numbers using an algorithm.

Success Criteria: I can multiply accurately and simplify results.

Activities: Step-by-step examples, partner practice, create-your-own problem challenge.

Assessment: Worksheet, peer feedback.

Day 8: Dividing Fractions (Conceptual)

Learning Goal: I can understand division of fractions using visual models.

Success Criteria: I can explain division of fractions as 'how many groups' or 'sharing equally.'

Activities: Explore $\frac{3}{4} \div \frac{1}{2}$ with models, discussion, guided practice.

Assessment: Oral responses, observation.

Day 9: Dividing Fractions (Using Reciprocal Method)

Learning Goal: I can divide fractions and mixed numbers using the reciprocal method.

Success Criteria: I can use the 'Keep, Change, Flip' rule correctly.

Activities: Teacher demonstration, group practice, exit ticket on flipping the second fraction.

Assessment: Exit ticket, individual practice.

Day 10: Problem Solving and Real-World Applications

Learning Goal: I can use fraction operations to solve real-world multi-step problems.

Success Criteria: I can select and apply the correct operation to solve a problem.

Activities: Group problem-solving (recipes, construction), Fraction Challenge quiz, reflection.

Assessment: Summative quiz, reflection sheet.

Differentiation

Support: Visual aids, manipulatives, guided examples, peer tutoring.

Extension: Connect to decimals and ratios, create multi-step fraction word problems.

Evaluation Tools

- Anecdotal notes
- Student reflections
- Exit tickets
- Summative quiz or project