Alison's Montessori
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COMMON CORE STANDARDS

CCS.M30.03: Adding Fractions: Unlike Denominators (9 - 12)

Grade 4: Introduce the concept of equivalent fractions as foundation for adding unlike denominators.

CCSS.MATH.CONTENT.4.NF.B.3.B – Decompose a fraction into a sum of fractions with the same denominator

Standard Summary: Begin to understand and manipulate fractions through equivalent parts.

Focus Area: Prepare to generate common denominators.

Students will:

- Use materials to identify equivalent fractions.
- Decompose and rename fractions to set up for addition.

CCSS.MATH.CONTENT.4.NF.C.5 – Express fractions with denominators of 10 as equivalent fractions with denominators of 100

Standard Summary: Understand how to generate equivalent fractions.

Focus Area: Apply fraction equivalency before adding.

Students will:

- Convert fractions to shared denominators (e.g., 1/2 to 2/4).
- Add after matching denominators visually or symbolically.

Grade 5: Master the formal process of adding fractions with unlike denominators using LCM and equivalent fractions.

CCSS.MATH.CONTENT.5.NF.A.1 – Add and subtract fractions with unlike denominators

Standard Summary: Generate equivalent fractions to perform operations.

Focus Area: Fluently add unlike fractions using visuals and equations.

Students will:

- Solve equations like 1/3 + 1/4 using LCM or fraction insets.
- Justify steps by showing equivalencies (e.g., 1/3 = 4/12, 1/4 = 3/12).
- Use answer cards to check for accuracy.

CCSS.MATH.CONTENT.5.NF.A.2 – Solve word problems involving addition of fractions

Standard Summary: Apply addition to story problems or contextual math.

Focus Area: Use addition of unlike fractions in real-world tasks.

Students will:

- Add quantities with unlike denominators using hands-on tools.
- Interpret and explain their mathematical process.

Grade 6: Use unlike fraction addition within multi-step expressions and rational number problems.

CCSS.MATH.CONTENT.6.NS.A.1 – Interpret and compute quotients of fractions

Standard Summary: Understand operations with all types of rational numbers.

Focus Area: Review and apply fraction addition in complex settings.

Students will:

- Use fluency in unlike denominators to complete multi-step expressions.
- Transition from visual to symbolic representation confidently.