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This assessment is designed to evaluate students' understanding of adding fractions with like and unlike denominators, aligning with the UK Primary School Curriculum for 9-year-olds.

The assessment consists of various question types to cater to different learning styles and abilities, ensuring that all students have the opportunity to demonstrate their knowledge and skills.

Section 1: Foundation Level (Support)	
Add the following fractions using visual aids (e.g., fraction walls, number lines): 1. 1/4 + 1/4 = ?	
2. 1/6 + 1/6 = ?	
Solve the following simple word problems:	
1. Tom has 1/6 of a pizza. His friend gives him another 1/6. What fraction of the pizza does Tom have now?	/e
2. Sarah has 1/4 of a bag of sweets. Her brother gives her another 1/4. What fraction of a bag of sweets does Sarah have now? Page 1 of 10	

Section 2: Core Level (I	-xpected)
dd the following fractions	s without visual aids:
1. 2/8 + 1/8 = ?	
2. 3/6 + 2/6 = ?	
olve the following word p	roblems:
1. A recipe requires 1/4	4 cup of sugar and 1/4 cup of flour. If you want to make half the recipe, what
traction of a cup of	sugar and flour will you need in total?
	of its books on the top shelf and 1/6 on the middle shelf. What fraction of the
books are on the top	and middle shelves?
Section 3: Extension Le	evel (Challenge)
dd the following fractions	s without visual aids:
1. 1/4 + 1/6 = ?	
	Page 1 of 10
2. 2/8 + 3/12 = ?	
olve the following multi-s	ton word problems:

1. A recipe requires 1/4 cup of sugar, 1/6 cup of honey, and 1/8 cup of flour. If you want to make half the recipe, what fraction of a cup of each ingredient will you need in total?

A water tank ca	an hold 1/4 of its c	apacity in the mo	orning and 1/6 of it	s capacity in the	afternoon.
	of the tank's capaci			, ,	

Section 4: Mixed Ability Differentiation
Foundation Level:
Use visual aids to add fractions with like denominators.
2. Solve simple word problems involving adding fractions with like denominators.
Core Level:
1. Add fractions with like denominators without visual aids.
2. Solve word problems involving adding fractions with unlike denominators.
Extension Level:
1. Add fractions with unlike denominators without visual aids.
2. Create and solve your own word problems involving adding fractions with unlike denominators.
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Section 5: Marking Guide

Foundation Level: 1 mark for correct answer

Core Level: 2 marks for correct answer (1 mark for calculation, 1 mark for simplification)

Extension Level: 3 marks for correct answer (1 mark for calculation, 1 mark for simplification, 1 mark for reasoning)

ne Allocat Iministratio	ion: 45 minutes foi on Tips:	the entire asse	essment			
	visual aids for fo	undation level	students.			
2. Allow o	core and extension	level students	to use calcul	ators for che	cking their answ	ers.
3. Encour	age students to s	now their worki	ing and reaso	ning.		

Section 7: Differentiation Options

Learning Support: Provide one-to-one support for students who require extra help. Offer visual aids and simplified word problems.

English as an Additional Language (EAL): Provide bilingual dictionaries and simplify word problems to focus on mathematical concepts.

Gifted and Talented: Offer more complex word problems and challenge students to create their own word problems involving adding fractions with unlike denominators.

Assistive Technology: Allow students to use text-to-speech software or other assistive technology to support their learning.

Section 8: Bloom's Taxonomy Alignment

Knowledge: Recall fraction concepts and terminology.

Comprehension: Understand the concept of adding fractions with like and unlike denominators.

Application: Apply fraction concepts to solve word problems.

Analysis: Analyze and simplify fractions.

Synthesis: Create own word problems involving adding fractions.

Evaluation: Evaluate and justify answers.

Section 9: Multiple Intelligence Approaches

Visual-Spatial: Use visual aids, such as fraction walls and number lines, to support learning.

Linguistic: Use word problems and encourage students to create their own word problems.

Logical-Mathematical: Focus on mathematical concepts and calculations.

Bodily-Kinesthetic: Use manipulatives, such as fraction blocks, to support learning.

Interpersonal: Encourage peer-to-peer discussion and support.

Intrapersonal: Encourage self-reflection and self-assessment.

Section 10: Conclusion

This assessment is designed to evaluate students' understanding of adding fractions with like and unlike denominators.

The mixed ability differentiation options cater to different learning styles and abilities, ensuring that all students have the opportunity to demonstrate their knowledge and skills.

The marking guide and implementation guidelines provide a clear structure for administering the assessment.