**Grade:** Intermediate (7-8)

**WEEK 7 – Recipe Proportions**

**Unit:** Number

**Curriculum Expectation**  
identify proportional and non-proportional situations and apply proportional reasoning to solve problems

**SEL:** make connections between math and everyday contexts to help them make informed judgements and decisions

**Activity  
1)** Your task is to find a recipe for your favorite dessert, this could be from a cookbook, online, or use the recipe attached below. Your recipe must include the approximate number of servings in one full recipe in addition to the amounts of ingredients bake time etc. **2)** In this situation, you will pretend that you have been invited to a dinner party of 40 people and need to take your recipe and use your knowledge of proportionality and fractions to scale up your recipe.   
**3)** Using the sheet below, you will begin by writing out what fraction each ingredient is to the total amount of the recipe.   
**4)** Then, based on the number of servings in the recipe, you will determine how much of each ingredient you would need to feed this party you have been invited to.   
**Extra Credit:** If you have extra time and want a fun way to expand this project, try baking your favourite dessert (maybe just for your family, though, no need to bake for 40)

**Check for Understanding**   
I understand proportionate relationships between ingredients and a recipe   
I can determine the fraction of ingredients to the total recipe  
I can use my knowledge of proportionality to scale up a recipe for more people

**Materials**   
Recording chart (attached below), pencil, cookbook/internet access/recipe attached below, ingredients (if you want them!)

Measurement Scaling

|  |  |  |  |
| --- | --- | --- | --- |
| **Ingredient** | **Original Ingredient Measurement** | **Fraction of Ingredient to total recipe** | **Amount of Ingredient needed for a recipe for 40** |
| Flour | 2 cups, 240 grams | 240/1150  24/115 | 6 and 2/3 cups |
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Banana Bread Recipe

4 Ripe Bananas, mashed (best if frozen from freezer)- 480 grams ¾ cup sugar- 150 grams

2 eggs, well beaten -100 grams 1 tsp salt- 5 grams

2 cups flour- 240 grams 1 tsp baking soda- 5 grams

1 bag of chocolate chips- 170 grams

Preheat oven to 3500 F

Mix bananas and eggs in a bowl using a fork. Stir in flour, sugar, salt and baking soda. Add chocolate chips and blend. Put in a greased loaf pan and bake for one hour. Remove to rack to cool

Serves 12