

Aim/context

To further develop the children's understanding of grams, kilograms, millilitres and litres.

To develop the children's knowledge of different increments of measure and how to scale these up or down.

To build upon previous knowledge of coin values.

To be able to read word problems and use different calculation methods to work out the answers.

Level 3 - Age group year 5/6

This game will ask the children to look at a market stall price list. They will have a recipe that they need to buy ingredients for from the stall. They will have to buy the right amount of ingredients depending on how many people the recipe will serve.

Skills

Mathematics

I can solve more complex problems, calculating different measures and money values

Financial education

I know I need to check and keep basic financial information (checking my bank statement throughout the game)
I understand that planning my spending helps me stay in control of my money (deciding what to spend points on in the online shop)

Scottish Curriculum Ref: MNU 2-11b

Teacher tips

Previous knowledge needed:

- Talk about their experiences of visiting a fruit and vegetable stall at the market and the costs involved. Discuss how the price can change depending on the weight or volume of the item that you want to buy.
- To have experience of weighing items using grams and kilograms.
- To have experience of measuring volume using litres and millilitres.
- To have experience of recording money values using £ and a decimal point.
- Talk about following recipes and buying ingredients to make a recipe.

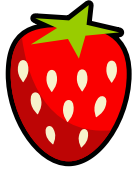
Key questions/prompts

Using a recipe for a smoothie that serves 1 person (see **Recipes** sheet) ask the children to think about what we need to do to make enough smoothies for every child in your class. Model multiplying the quantities by the number of children in class.

Group activity ideas

- Using the smoothie recipe for 1 person and multiply the ingredients so that it can be made for the number of children in the group. Then work together to make the smoothie and drink it!
- Look at a selection of recipe books, pick a recipe and change the weight and volumes of the ingredients to make enough for 10 people.
- Using **Recipes** sheet, the children must answer word problems related to weight and volume.
- Sort **Flashcards 3** with units of weight and volume into order starting with the smallest weight or volume.

You will need:-



200g of strawberries



The juice of 300g of oranges



200g of chopped bananas



1 tbsp of yoghurt

Place the chopped fruit, orange juice and yoghurt into a blender or food processor.

Blend until smooth and serve.

You need 400g of cauliflower to make vegetable soup for 8 people. How many grams of cauliflower do you need to make soup for 4 people?

You need 2kg of chopped bananas to make 10 smoothies. How many grams of bananas do you need to make 5 smoothies?

You need 1600g of chopped tomatoes to make 4 pizzas, how many grams would you need to make 2 pizzas?

You need 400g of cauliflower to make vegetable soup for 8 people. How many grams of cauliflower do you need to make soup for 6 people?

You need 100g of celery to make 5 portions of vegetable soup. How many grams of celery do you need to make 3 portions of soup?

You need 1 kg of mushrooms to make 2 pizzas. How many grams of mushrooms would you need to make 1 pizza?

You need 900g of strawberries to make 6 smoothies. How many grams of strawberries would you need to make 4 smoothies?

You need 1.2kg of mozzarella cheese to make 8 pizzas. How many grams do you need to make 6 pizzas?

You need 720 grams of chopped red pepper to make 4 pizzas, how many grams of red pepper do you need to make 1 pizza?

You need 2kg of onions to make 10 pizzas? How many grams of onions do you need to make 6 pizzas?

You need 400g of cauliflower to make vegetable soup for 8 people. How many grams of cauliflower do you need to make soup for 4 people?

200g

You need 2kg of chopped bananas to make 10 smoothies. How many grams of bananas do you need to make 5 smoothies?

1 kg

You need 1600g of chopped tomatoes to make 4 pizzas, how many grams would you need to make 2 pizzas?

800g

You need 400g of cauliflower to make vegetable soup for 8 people. How many grams of cauliflower do you need to make soup for 6 people?

300g

You need 100g of celery to make 5 portions of vegetable soup. How many grams of celery do you need to make 3 portions of soup?

60g

You need 1 kg of mushrooms to make 2 pizzas. How many grams of mushrooms would you need to make 1 pizza?

500g

You need 900g of strawberries to make 6 smoothies. How many grams of strawberries would you need to make 4 smoothies?

600g

You need 1.2kg of mozzarella cheese to make 8 pizzas. How many grams do you need to make 6 pizzas?

900g

You need 720 grams of chopped red pepper to make 4 pizzas, how many grams of red pepper do you need to make 1 pizza?

180g

You need 2kg of onions to make 10 pizzas? How many grams of onions do you need to make 6 pizzas?

1200g



$1/4$ of 2kg

$1/2$ of 720g

$1/3$ of 1.8kg

$1/2$ of 2.4kg

$1/2$ of 490kg

$1/4$ of 984g



**$\frac{1}{3}$ of
3000ml**

**$\frac{1}{2}$ of 2.4
litres**

$\frac{1}{4}$ of 544ml

**$\frac{1}{4}$ of 1.8
litres**

$\frac{1}{2}$ of 192ml

**$\frac{1}{3}$ of
1758ml**