

### Aim/context

To 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 2 - Age group year 4/5

This game will ask the children to look at a market stall price list. They will answer word problems related to the weight and cost of items on the price list. They will have to scale weights and volumes up and down in order to answer the questions.

### Skills

#### Mathematics:

I can solve simple problems by adding and subtracting amounts of money in practical contexts

#### Financial education:

I can plan and track my spending and savings by keeping records (checking my bank statement throughout the game)

**Scottish Curriculum Ref:** MNU 2-03a

### 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.

### Key questions/prompts

Using real fruit, vegetables and liquids, ask the children to weigh items using scales and write the weight using grams or kilograms. Repeat using different fruit or vegetables. Key question-which fruit weighed the most/least? Ask the children to pour 500ml of milk into a measuring jug. Repeat using different volumes. Key question-What was the biggest/smallest volume that we measured?

Using an enlarged version of photocopiable sheet from the resource pack showing fruit and vegetables with weights and liquids with volumes. Look closely at the price list, ask the children to read out the weights, volumes and prices.

Model working out how much 50g of apples would cost. Then how much 25g of apples would cost.

Using the **Market Price List 2**, think of some word problems related to which fruit/vegetable is the most/least expensive per 25g/50g/kilogram etc.

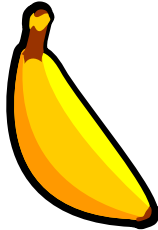
Use this method and relate it to word problems involving volumes of liquids.

### Group activity ideas

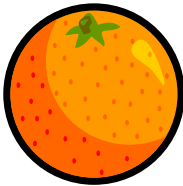
- Using the fruit and vegetables from the main session, let the children work with scales to measure the weight of different items. Asking key questions, e.g Does a pear weigh more than a banana?
- Using a set of measuring jugs and containers and water (you could put food colouring in the water to make it easier for the children to read the volume). Using a set of flash cards showing different volumes, ask the children to fill the measuring containers with that amount of water. Repeat using a different flash card.
- Using **Price List 2**, the children must answer word problems related to weight and volume.
- Sort **Flashcards 2** with units of weight and volume into order starting with the smallest weight or volume.



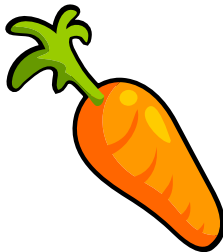
**Apples - £2.40 per 100g**



**Bananas - £4.60 per 200g**



**Oranges - £5.70 per kg**









**Carrots - £1.30 per 200g**



**Cream - £2.50 per 500ml**



**Milk - £1.50 per litre**

 Apples - £2.40 per 100g	 Bananas - £4.60 per 200g
 Oranges - £5.70 per kg	 Carrots - £1.30 per 200g
 Cream - £2.50 per 500ml	 Milk - £1.50 per litre

How much would a kg of bananas cost?

How much would a 1/4 of a kg of bananas cost?

How much would 1/2 of 100g of apples cost?

How much would 2 litres of cream cost?

How much would 1/2 kg of oranges cost?







How much would 1kg of apples cost?

How much would 1/2 a litre of milk cost?

How much would 1 kg of carrots cost?

How much would 2 kg of oranges cost?

How much would 2000ml of milk cost?

 Apples - £2.40 per 100g	 Bananas - £4.60 per 200g
 Oranges - £5.70 per kg	 Carrots - £1.30 per 200g
 Cream - £2.50 per 500ml	 Milk - £1.50 per litre

How much would a kg of bananas cost?

**£23.00**

How much would a 1/4 of a kg of bananas cost?

**£5.75**

How much would 1/2 of 100g of apples cost?

**£1.20**

How much would 2 litres of cream cost?

**£10.00**

How much would 1/2 kg of oranges cost?

**£2.85**

How much would 1kg of apples cost?

**£24.00**

How much would 1/2 a litre of milk cost?

**£0.75**

How much would 1 kg of carrots cost?

**£6.50**

How much would 2 kg of oranges cost?

**£11.40**

How much would 2000ml of milk cost?

**£3.00**



**$1/4$  of 600g**

**$1/2$  of 150g**

**$1/3$  of 900g**

**$1/2$  of 2kg**

**$1/2$  of 5kg**

**$1/4$  of 360g**



**$1/3$  of 300ml**

**$1/2$  of 2 litres**

**$1/4$  of 540ml**

**$1/4$  of  
1000ml**

**$1/2$  of 130ml**

**$1/3$  of 750ml**