

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 to scale these up or down.

To build upon previous knowledge of coin values.

Level 1 - Age group year 3/4

This game will ask the children to use a price list showing units of weight on a market stall. They will have to work out the price of an item on the market stall by looking at the weight of the item. This will involve scaling the measurement weights and volumes up and down to make sure that they are buying the correct amount.

Skills

Mathematics:

I can work out the cost of different items based on different weights and volumes

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 2-11b

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.

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. Ask the children to pour 500ml of milk into a measuring jug. Repeat using different volumes.

Use an enlarged version of a 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.

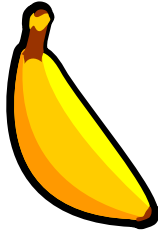
Using the **Market Price List**, think of more questions for the children to work out the answers to by scaling the

Group activity ideas

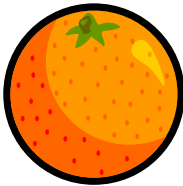
- Using the fruit and vegetables from the main session, let the children work with scales to measure the weight of different items. Asking key questions, e.g. does a pear weigh more than a banana?
- Using a set of measuring jugs and containers and water (you could put food colouring in the water to make 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 1**, the children must answer word problems related to weight and volume.
- Sort the **Flashcards 1** with units of weight and volume into order starting with the smallest weight or volume.



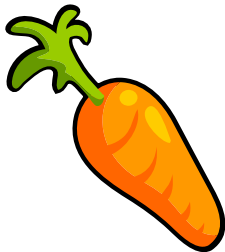
Apples - £2 per 100g



Bananas - £4 per 200g



Oranges - £5 per kg





Carrots - £1 per 100g



Cream - £2 per 500ml



Milk - £1 per litre

 Apples - £2 per 100g	 Bananas - £4 per 200g
 Oranges - £5 per kg	 Carrots - £1 per 100g
 Cream - £2 per 500ml	 Milk - £1 per litre

How much would 1 kg of bananas cost?

How much would 600g of apples cost?

How much would 5 litres of milk cost?

How much would 2 litres of cream cost?

How much would 500g of oranges cost?

How much would 1kg of apples cost?

How much would 500ml of milk cost?

How much would 1 kg of carrots cost?

How much would 2 kg of oranges cost?

How much would 1000ml of milk cost?

 Apples - £2 per 100g	 Bananas - £4 per 200g
 Oranges - £5 per kg	 Carrots - £1 per 100g
 Cream - £2 per 500ml	 Milk - £1 per litre

How much would 1 kg of bananas cost?

£20.00

How much would 600g of apples cost?

£12.00

How much would 5 litres of milk cost?

£5.00

How much would 2 litres of cream cost?

£8.00

How much would 500g of oranges cost?

£2.50

How much would 1kg of apples cost?

£20.00

How much would 500ml of milk cost?

50p

How much would 1 kg of carrots cost?

£10.00

How much would 2 kg of oranges cost?

£10.00

How much would 1000ml of milk cost?

£1.00



500g

150g

900g

2kg

5kg

375g



300ml

2 litres

540ml

1 000ml

1 30ml

7 50ml