



Stage 6: Budgeting

Learning objectives:

- To work within a budget
- To solve multi-step problems

Stage overview:

This lesson could be completed after or during a block of teaching on written addition and subtraction methods or calculating with money. It allows the children to apply their learning to solve real-life problems and gives those who may be disenchanted by Maths an engaging purpose for learning.

The children could find out the cost of their ingredients using a supermarket website, or you could complete this lesson in a supermarket and give them the opportunity to pay for their items themselves.

Materials needed:

Access to the internet or a supermarket

Presentation notes:

Slide 2: The definition of 'a budget'	<ul style="list-style-type: none"> - Ask the children if they understand and can explain the term 'budget' - A budget is a set amount of money that businesses have to spend over a set period of time. - Explain that their budget will be the amount of money they have to spend on producing their product.
Slide 3: Introduce the task	<ul style="list-style-type: none"> - The children will have a budget of £1 per group member to buy the additional ingredients needed to make the product they have designed. - Explain that the children will be able to use the butter that we will make in the next session so they do not need to include that in their calculations but any other ingredients will need to be bought using their budget, including those for the basic tartlet recipe e.g. flour. - If they find that they cannot afford their original ideas, they will need to adapt their recipe and think of ways to solve this real life problem. This is an excellent opportunity for the children to work on their addition, subtraction, problem-solving and collaboration skills. - Spoken language skills could also be assessed when listening to the problem solving discussions that take place.
Slide 4: Maths with meaning	<ul style="list-style-type: none"> - If completing this stage in the classroom, model how to use the supermarket website to search for their ingredients and order them so they can view the product options in order of price. - Encourage the children to think carefully about which written calculation methods will be the most efficient to use in the context of this problem. Take suggestions for the methods that have been covered and lead a discussion on the most efficient one to use. - Discuss top tips for calculating with decimals.

	<ul style="list-style-type: none"> - Model the method you would like them to use for addition and subtraction with decimals if needed. - Emphasise the importance of accuracy when calculating their total cost to ensure they stay within their budget. Encourage the children to therefore check their working out and take suggestions for methods they could use for this. - If completing this session in the classroom, once the children have calculated the cost of buying their materials and checked they have stayed within their budget, ask them to write their teacher a shopping list for their chosen ingredients.
Slide 5: Where do our ingredients come from?	<ul style="list-style-type: none"> - To apply their food provenance learning from the last stage, ask the children to research where each of their chosen ingredients comes from. - Using 'Google tour builder', create a tour that starts with a shopping basket and shows from where in the world each of their chosen ingredient is sourced and how far it has travelled. - Use this activity to lead a discussion on food miles.

Links to the National Curriculum:

Maths	Addition and Subtraction	<ul style="list-style-type: none"> - Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate - Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.
	Fractions	<ul style="list-style-type: none"> - Solve simple measure and money problems involving fractions and decimals to two decimal places
	Measurement	<ul style="list-style-type: none"> - Estimate, compare and calculate different measures, including money in pounds and pence