

**LESSON PLAN**

**2**

**NUMERACY: HOW MUCH BREAD IS WASTED?**

**Learning objectives/intentions**

- Be able to select the most appropriate problem-solving technique to answer a question.
- To use a chosen technique to solve a mathematical problem.

**Prior Knowledge**

- Children will be able to use all 4 operations using weight.
- Convert between units of measure for weight and money.

**Resources**

- Lesson PowerPoint 'How much bread is wasted?'
- Bread Fact Sheet 1
- Bread Fact Sheet 2 (LA group)
- Problem-solving strategies poster
- Resource Sheet 2
- Homework Sheet 2 (*Food Waste Diary*)

**Equipment**

- Calculators
- Whiteboards/ scrap paper

**Getting Started** (10 minutes)

- Use slide 3 of the PowerPoint Presentation showing a loaf of Brennans bread with some left over slices. Ask children does this ever happen in their house? Do they want to eat the last few slices?
- On slide 4 watch BBC clip '[Calculating food waste and the environmental cost](#)'.



**Main Activity** (15 mins)

**How much bread do we waste?**

- Use slide 5 to introduce the pupils to the Kelly family and the bread they use in a week. Challenge the children to find out how much bread this wastes over a week, a month and a year.
- Distribute Bread Fact Sheet 1 giving the weight of loaves of bread, the number of slices in each loaf and the cost to buy. Can the pupils solve the problem of how much bread the family wasted?
- Children work in groups to decide what problem-solving techniques they should use and answer the question on Resource Sheet.



**Plenary** (10 minutes)

Using slide 10 bring the groups together to discuss their answers. What strategies did they use?

Reinforce the amount that could be saved by using this bread and link to the next lesson on creating recipes to use this left over bread.





### **Before the lesson**

Pupils will have completed Lesson 1  
'The Story of Bread'.

### **Additional support**

- Pupils could work in mixed-ability groups.
- Less able children could use calculators for calculations and have access to weight conversion charts.
- Pupils can use **Bread Fact Sheet 2** with fewer, less complicated calculations needed.

### **Take it further**

#### **Extension and opportunities for independent learning.**

##### **Pupils could**

- Express the amount of bread wasted as a fraction or percentage of the loaf.
- Carry out a food waste survey in the school canteen.
- Record the amount of bread wasted at home over the course of a week.

#### **Assessment for Learning Opportunities**

- Through discussion, can children explain their reasoning for the problem-solving method they have chosen?
- Observation of conversions between units of measure for weight and money.

#### **Homework Activity**

- Pupils can use the **Food Waste Diary Homework Sheet** to complete their own Food Waste Diary at home. This Homework Sheet is intended to be used throughout the week from Monday to Sunday.