

Investigating Mixtures with Bea the Bee

Learning objective: To identify and explain how mixtures can be separated using different scientific methods.

Use this writing frame to describe your science experiment. Follow the prompts to explain how you separated your mixture and why your chosen method worked.

Today, Bea the Bee and I conducted an experiment to separate a mixture of sand, salt, and water.

Word bank: dissolve · solution · evaporation · filter · sieve · mixture · substance · transparent · consequently · furthermore · in addition

1. Introduction: Describe the mixture you created by starting with: 'To begin the experiment, I created a mixture of...' (2 marks)

2. Method Part 1: How did you separate the solid particles from the liquid? Start with: 'First, I used a sieve to...' (2 marks)

3. Method Part 2: How did you recover the dissolved substance? Start with: 'To separate the dissolved material from the water, I decided to use...' (3 marks)

4. Scientific Reasoning: Explain why your chosen methods were effective. Start with: 'The process worked because...' (3 marks)

5. Conclusion: What did you learn about mixtures? Start with: 'In conclusion, I discovered that mixtures can be separated by...' (2 marks)

Extension challenge: Imagine Bea the Bee needs to separate sugar from pebbles. Write a short paragraph explaining which equipment she should use and why.