

Investigating Materials with Bea the Bee

Learning objective: To identify, describe, and compare the properties of everyday materials.

Follow the prompts below to write a scientific report about a material you have chosen to test. Use your observations and scientific vocabulary to explain why the material is suitable for its purpose.

Today, I am investigating the properties of a chosen material to see how it performs under different conditions.

Word bank: transparent · opaque · flexible · rigid · waterproof · absorbent · durable · on the other hand · consequently · furthermore · in summary

1. Introduction: What object are you testing and what is it usually used for? Start by saying: 'I have chosen to investigate a [name of object] because...' (2 marks)

2. Physical Properties: Describe how your material looks and feels. Use the sentence starter: 'The material is [adjective] and [adjective], which means that it is...' (3 marks)

3. The Testing Process: Explain how you tested the material (e.g., for strength or waterproofness). Start with: 'To test the properties, I decided to...' (3 marks)

4. Results: What happened during your experiment? Start with: 'During the test, I observed that...' (3 marks)

5. Conclusion: Why is this material the best choice for its job? Start with: 'In conclusion, this material is suitable for its purpose because...' (3 marks)

Extension challenge: Imagine you are Max the monkey. If you had to build a bridge out of only one material, which would you choose and why? Write three sentences explaining your choice using the word 'durable'.