Nova’s Material Investigation Report

Learning objective: To compare and group together a variety of everyday materials on the basis of their properties.

Help Nova the owl explore the properties of objects around your classroom or home. Choose three different objects, test how they behave, and fill in the boxes below to record your scientific findings.

Word bank: flexible · rigid · transparent · opaque · waterproof · absorbent · magnetic · rough · smooth

1. Object 1: Name your object and describe its texture and appearance. Is it shiny or dull? (2 marks)

2. Object 2: Is this object flexible or rigid? What happens if you try to bend it? (2 marks)

3. Object 3: Is this object waterproof or absorbent? How do you know? (2 marks)

4. Material Comparison: Why do you think the material of Object 1 is a good choice for its purpose? (3 marks)

5. Grouping: Which two objects from your list share the most similar properties? Explain why. (3 marks)

Extension challenge: If you could swap the material of one of your objects for a different one (for example, making a spoon out of fabric instead of metal), what would happen? Write a sentence explaining your prediction.