Nova’s Magnetic Investigation Log

Learning objective: To observe and record how magnets attract or repel each other and identify magnetic materials.

Join Nova the owl in her laboratory! Use this experiment record to track your findings as you test different objects. For each object, predict whether it is magnetic, then test it using a bar magnet to see if you were correct. Ensure you record your findings clearly so you can draw a scientific conclusion at the end.

Word bank: attract · repel · magnetic · non-magnetic · poles · force · prediction · material

1. The Research Question: What do you want to find out about magnets and the objects you have chosen? (2 marks)

2. Predictions: List three objects you are testing and predict whether they will be attracted to your magnet. (3 marks)

3. Method: Briefly explain how you will safely test if your chosen objects are magnetic. (3 marks)

4. Results: Describe what happened when you brought the magnet close to your objects. Did anything surprise you? (4 marks)

5. Conclusion: Based on your results, which materials are magnetic? Write a rule for what makes an object magnetic. (3 marks)

Extension challenge: Nova wants to know: What happens when you place the North pole of one magnet near the North pole of another magnet? Write a sentence explaining the force you can feel.