# Nova’s Magnetic Mystery Hunt

*Learning objective: To identify magnetic and non-magnetic materials and understand how magnets attract or repel.*

Nova the owl is organising her laboratory, but she has mixed up all her items! Look at the list of objects below. Decide if each item is 'Magnetic' (attracted to a magnet) or 'Non-magnetic'. Write your answer in the box next to the item. Then, use your knowledge to answer the questions about how magnets work.

*Word bank: magnetic · non-magnetic · attract · repel · poles · metal*

**1. 1. A steel paperclip: _____ (1 mark)**

**2. 2. A wooden ruler: _____ (1 mark)**

**3. 3. A copper coin: _____ (1 mark)**

**4. 4. An iron nail: _____ (1 mark)**

**5. 5. Nova has two magnets. If she pushes the North Pole of one magnet towards the North Pole of another, what will happen? Explain why. (2 marks)**

**6. 6. Why is it important that a fridge door uses a magnet to stay closed? (2 marks)**

**Draw: Draw a picture of a magnet showing the North (N) and South (S) poles. Use arrows to show two magnets repelling each other.**

*Extension challenge: Imagine you are an inventor like Kit the fox. Can you design a machine that uses a magnet to help sort recycling? Describe how your invention works in two sentences.*