

Nova's Magnetic Discovery

Learning objective: To identify and label the parts of a magnet and understand how magnetic forces work on different materials.

Help Nova the owl explore magnetic forces! Follow the drawing steps below to create a scientific diagram of a magnet in action, then label your work using the word bank provided.

Draw: Draw a clean, scientific diagram showing a bar magnet on a wooden desk. Use dotted lines to represent the 'invisible' magnetic field looping from one end to the other. Place a small iron paperclip being pulled towards the magnet. Use clear labels with arrows pointing to the poles and the field. Keep the style neat and academic, like a page from a scientist's notebook.



Label words: North Pole · South Pole · Magnetic Field · Attract · Repel · Magnetic Material

Steps:

1. Step 1: Draw a large bar magnet in the centre of your page. Label the two ends as the North Pole and the South Pole.
2. Step 2: Draw three objects near the magnet that would be attracted to it (such as a paperclip, a nail, or a key). Label these as 'Magnetic Materials'.
3. Step 3: Draw invisible lines looping around the magnet to show the magnetic field. Explain why these lines

are important.

4. Step 4: If you placed a second magnet near the North Pole of your first magnet, would they attract or repel? Write your answer below.

5. Step 5: List two materials that are NOT magnetic and would not be attracted to your magnet.