Nova’s Magnetic Discovery

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

Follow the drawing prompt below to complete your magnetic experiment scene. Use the labels from the word bank to correctly identify the parts of your drawing.

Draw: Draw a laboratory scene featuring Nova the owl. On a wooden table, draw a large bar magnet. Surrounding the magnet, include a variety of small items: a metal paperclip, a plastic button, an iron nail, and a wooden ruler. Use clear, simple lines to show the paperclip and nail 'jumping' toward the magnet to show attraction. Use a bright color to draw an 'invisible' force field around the ends of the magnet.

Label words: North pole · South pole · Magnetic material · Non-magnetic material · Attraction · Repulsion

Steps:

1. Step 1: Draw a bar magnet in the center of your page. Label the North pole and the South pole.
2. Step 2: Draw a paperclip, a wooden pencil, and a steel coin near the magnet. Draw a line from the magnet to the objects it would attract.
3. Which of the objects you drew are magnetic? Explain how you know.
4. What happens when you put two 'North' poles of two different magnets together?

5. Label one object in your drawing as a 'Non-magnetic material'. Why does the magnet not pick this up?