

Year 4 Science Assessment: Marvellous Magnets

Learning objective: To identify magnetic materials, understand magnetic poles, and describe how magnets interact.

Read each question carefully. Use the word bank to help you spell tricky words. Write your answers on the lines provided.

Nova the owl is exploring the forest floor with her magnetic wand. She is looking for hidden treasures. She finds that her wand sticks to some objects but not to others. She also notices that when she turns her wand around, it sometimes pushes another magnet away.

Word bank: attract · repel · magnetic · north · south · poles · metal · iron

1. 1. Nova finds a paperclip and a plastic button. Which one is magnetic? (1 mark) (1 mark)

2. 2. Name two objects made of metal that a magnet would attract. (2 marks) (2 marks)

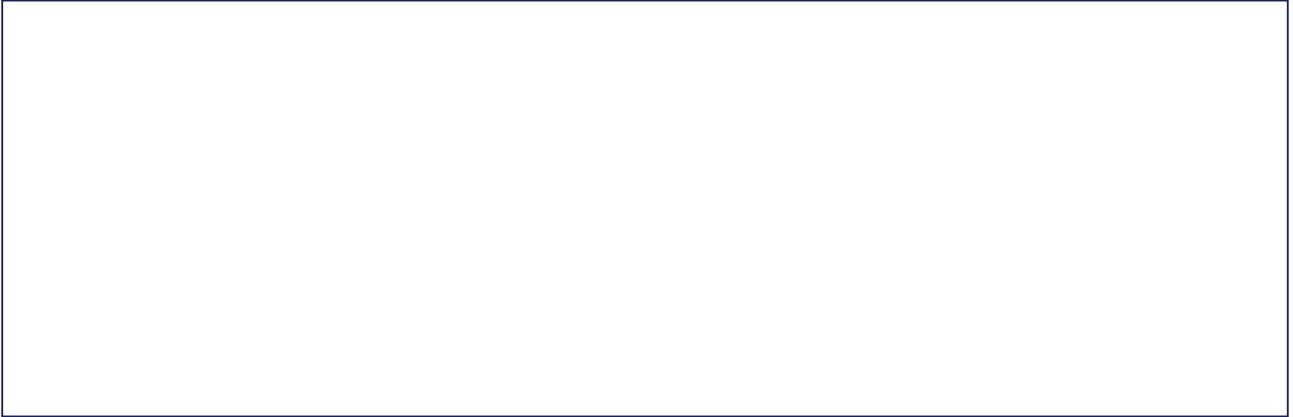
3. 3. What do we call the two ends of a magnet? (2 marks) (2 marks)

4. 4. If you put two 'north' poles together, what happens? Use the word 'repel' in your sentence. (3 marks) (3 marks)

5. 5. Nova has a toy magnet. Explain what happens when she brings the 'north' pole of one magnet near the 'south' pole of another magnet. (4 marks) (4 marks)

6. 6. Imagine you are helping Nova design a 'treasure hunt' game. Write a short plan explaining how you would use magnets to make a game where objects move without being touched. (8 marks) (8 marks)

Draw: Draw two bar magnets. Show what happens when you try to push the two 'north' poles together. Use arrows to show the force.



Extension challenge: Total: /25. Challenge: Why do you think magnets are useful in our homes? Write two examples.