

Nova's Guide to Forces

Learning objective: To explain how forces, such as friction and magnetism, affect the movement of objects.

Use this writing frame to help you write a report about how different forces move objects. Think about your observations from our science experiments and use the word bank to help your writing flow.

A force is a push or a pull that can change the motion of an object.

Word bank: friction · surface · attract · repel · resistance · on the other hand · consequently · furthermore · as a result

1. Introduction: Define what a force is and describe how Nova the owl might use a push or a pull to move a heavy book... (2 marks)

2. Friction: Explain what happens when an object moves across different surfaces. Why is it harder to slide a box on carpet than on wood?... (3 marks)

3. Magnetism: Describe how magnetic forces work. What happens when two like poles are placed near each other?... (2 marks)

4. Investigation findings: Summarise what you discovered during our class experiment about forces. Which surface caused the most friction?... (3 marks)

5. Conclusion: Why are forces important in our daily lives? Give an example of a force you have used today... (2 marks)

Extension challenge: Research and write a paragraph about air resistance. How does the shape of a falling object affect how quickly it reaches the ground?