

Nova's Forces Fun Quiz

Learning objective: To identify and describe how objects move on different surfaces and understand how forces like friction and magnets work.

Help Nova the owl explore the world of forces! Read each question carefully and circle the best answer.

Answer Key: 1. A (Push or pull), 2. False, 3. Friction, 4. B (Rough), 5. True, 6. Attract, 7. C (South pole), 8. True, 9. Gravity, 10. Pull.

Word bank: friction · force · surface · magnetic · attract · repel · smooth · rough

1. 1. What is a force? A) A push or a pull*, B) A type of food, C) A magic spell, D) A colour. (1 mark)

2. 2. True or False: Forces cannot change the shape of an object. (1 mark)

3. 3. What is the name of the force that acts between two surfaces that are sliding across each other? (1 mark)

4. 4. Which surface creates the most friction? A) Ice, B) Rough carpet*, C) Glass, D) Polished wood. (1 mark)

5. 5. True or False: Magnets can attract objects made of iron or steel. (1 mark)

6. 6. When two magnets pull towards each other, we say they _____. (1 mark)

7. 7. Which of these is a pole on a magnet? A) North, B) East, C) South pole*, D) West. (1 mark)

8. 8. True or False: If you push a toy car on a smooth floor, it will travel further than on a rug. (1 mark)

9. 9. What is the invisible force that pulls everything down towards the centre of the Earth? (1 mark)

10. 10. To open a heavy door, do you usually push it or pull it? (1 mark)

Draw: Draw a picture of Nova the owl using a magnet to pick up a paperclip. Draw arrows to show the direction of the magnetic force.



Extension challenge: Max the monkey wants to slide down a playground slide. If the slide is made of rough plastic, what will happen to his speed? Write two sentences explaining why a smoother slide might make him go faster.