Name _____

Friction: The Invisible Force That Shapes Our World

Open-Ended Response Questions

1. Think of a situation where reducing friction might be advantageous. Explain why and how you could achieve this reduction.

2. Discuss the role of friction in sports, providing examples of sports where friction plays a crucial role in performance and safety.

3. Imagine you are an engineer designing a high-speed train. How would you address the challenges of friction to ensure the train can maintain high speeds while remaining safe for passengers?

4. Friction can sometimes be a drawback, such as when it causes wear and tear on moving parts. How can engineers and scientists minimize the negative effects of friction in machinery and technology?

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