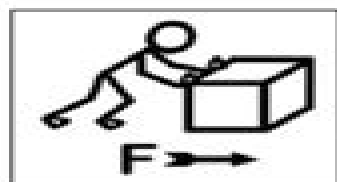


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Forces and Motion Reading

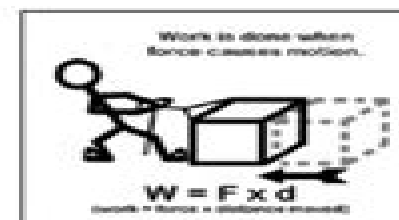
Directions: Please read and annotate the following passage below about force and motion. In order to receive full credit you need to do the following: circle words you don't know, highlight main concepts/ big ideas and provide me with a 7 sentence summary for the first page and a 7 sentence summary for the second page.

A Force (F) is energy that is created by a push or pull. You generate a force when you push against a box to move it across the floor, or when you pull a wagon. You generate a force when you push down on the pedals of your bike. You generate a force when you lift a book off a table, "pulling" the book up with the lever of your arm.



In order to create motion from an object, the energy you apply must be greater than any force(s) resisting motion. Motion is a change in position or location of a body. Another word for motion is movement. When a force causes motion, work is done. Work is by definition $W = F \times d$, where F = force applied and d = the distance the object is moved, also called displacement.

Think about this: if you push against a refrigerator and cannot move it any distance, have you still done work? The answer is no. You have produced no motion in the refrigerator, and in the equation above, the displacement is zero. Therefore the work is zero. Have you generated a force? Yes. If you apply force to something and it does not move, you can still feel the effect of that force. You feel tired! The force you generated was not enough to overcome the mass of that refrigerator at rest.



To create motion, you must supply enough work to overcome resistant forces. One resistant force is called inertia. Inertia is an object's resistance to changes in motion. If an object is not moving, it resists being moved. If an object is moving, it resists being stopped. But what causes the force of inertia? If an object is at rest, the force of inertia that must be overcome to move it is a combination of gravity pulling down on the object and friction resisting a push ahead. If an object is in motion, the force of the object's speed moving in a direction will oppose a force stopping the object.



Motion And Forces Comprehension

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Table of Contents Motion And Forces Comprehension

1. Understanding the eBook Motion And Forces Comprehension
 - The Rise of Digital Reading Motion And Forces Comprehension
 - Advantages of eBooks Over Traditional Books
2. Identifying Motion And Forces Comprehension
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Motion And Forces Comprehension
 - User-Friendly Interface
4. Exploring eBook Recommendations from Motion And Forces Comprehension
 - Personalized Recommendations
 - Motion And Forces Comprehension User Reviews and Ratings
 - Motion And Forces Comprehension and Bestseller Lists
5. Accessing Motion And Forces Comprehension Free and Paid eBooks

- Motion And Forces Comprehension Public Domain eBooks
- Motion And Forces Comprehension eBook Subscription Services
- Motion And Forces Comprehension Budget-Friendly Options
- 6. Navigating Motion And Forces Comprehension eBook Formats
 - ePub, PDF, MOBI, and More
 - Motion And Forces Comprehension Compatibility with Devices
 - Motion And Forces Comprehension Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Motion And Forces Comprehension
 - Highlighting and Note-Taking Motion And Forces Comprehension
 - Interactive Elements Motion And Forces Comprehension
- 8. Staying Engaged with Motion And Forces Comprehension
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Motion And Forces Comprehension
- 9. Balancing eBooks and Physical Books Motion And Forces Comprehension
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Motion And Forces Comprehension
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Motion And Forces Comprehension
 - Setting Reading Goals Motion And Forces Comprehension
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Motion And Forces Comprehension
 - Fact-Checking eBook Content of Motion And Forces Comprehension
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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