

Conceptual Forces Worksheet

Name: _____ **KEY** _____

Mod: _____

Date: _____

Directions: Answer the following problems below using complete sentences to earn full credit.

1. Compare and contrast contact vs. field forces. Give examples of each.

A field force and contact force both apply forces to objects. A contact force requires two objects to be in contact with one another to exist. A field force interacts with objects without contact through some force field. Examples of contact forces would be push and pull. Examples of field forces are gravity and electromagnetic.

2. How do we calculate the weight of an object?

$$w = mg$$
$$\text{weight (N)} = \text{Mass (kg)} \times \text{Acceleration Due to Gravity (9.8 } \frac{\text{m}}{\text{s}^2})$$

3. What is the weight of a 40kg object?

$$w = mg$$
$$w = (40 \text{ kg}) (9.8 \frac{\text{m}}{\text{s}^2})$$
$$w = 392 \text{ N}$$

4. What would be the mass of an object that weighted 200N?

$$w = mg$$
$$m = \frac{w}{g}$$
$$m = \frac{200 \text{ N}}{9.8 \frac{\text{m}}{\text{s}^2}} = 20.41 \text{ kg}$$

5. What changes depending on location in the universe, weight or mass? Explain...

Mass is the measure of matter in an object. Weight is the force of gravity pulling on an object. Mass stays constant regardless of location. Weight depends on the gravitational field produced by near by large masses.

6. State Newton's First Law of Motion.

Also known as the law of inertia. An object at rest remains at rest. An object in motion remains at a constant velocity, unless acted on by an unbalanced net force.

7. State Inertia.

The tendency for an object to resist change in motion. Directly proportional to mass.

8. Why is the normal force called a support force?

It is the force created by an object supporting another object.

Answers For In Conceptual Physics

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Table of Contents Answers For In Conceptual Physics

1. Understanding the eBook Answers For In Conceptual Physics
 - The Rise of Digital Reading Answers For In Conceptual Physics
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For In Conceptual Physics
 - 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 Answers For In Conceptual Physics
 - User-Friendly Interface

4. Exploring eBook Recommendations from Answers For In Conceptual Physics
 - Personalized Recommendations
 - Answers For In Conceptual Physics User Reviews and Ratings
 - Answers For In Conceptual Physics and Bestseller Lists
5. Accessing Answers For In Conceptual Physics Free and Paid eBooks
 - Answers For In Conceptual Physics Public Domain eBooks
 - Answers For In Conceptual Physics eBook Subscription Services
 - Answers For In Conceptual Physics Budget-Friendly Options
6. Navigating Answers For In Conceptual Physics eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers For In Conceptual Physics Compatibility with Devices
 - Answers For In Conceptual Physics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For In Conceptual Physics
 - Highlighting and Note-Taking Answers For In Conceptual Physics
 - Interactive Elements Answers For In Conceptual Physics
8. Staying Engaged with Answers For In Conceptual Physics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For In Conceptual Physics
9. Balancing eBooks and Physical Books Answers For In Conceptual Physics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For In Conceptual Physics
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answers For In Conceptual Physics
 - Setting Reading Goals Answers For In Conceptual Physics
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Answers For In Conceptual Physics
 - Fact-Checking eBook Content of Answers For In Conceptual Physics
 - 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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